

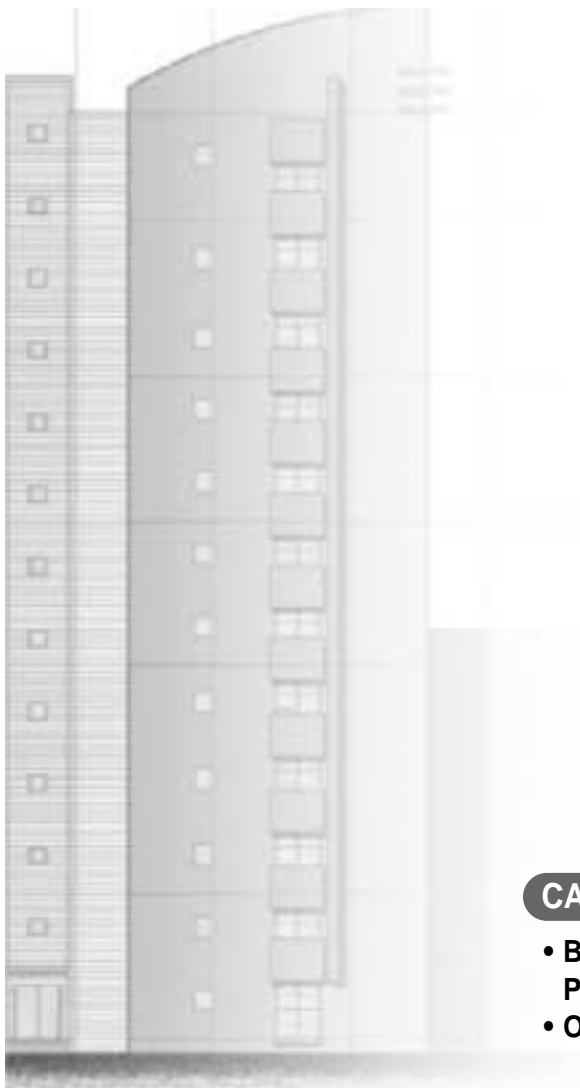


website <http://www.lgservice.com>

LG

MULTI V™ PLUS System Air Conditioner ***SERVICE MANUAL***

***MODELS: LRUV/LRUN Series
LRNV/LRNN Series***



CAUTION

- BEFORE SERVICING THE UNIT, READ THE SAFETY PRECAUTIONS IN THIS MANUAL.
- ONLY FOR AUTHORIZED SERVICE PERSONNEL.

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Safety Precautions



To prevent injury to the user or other people and property damage, the following instructions must be followed.

■ Incorrect operation due to ignoring instruction will cause harm or damage. The seriousness is classified by the following indications.

⚠ WARNING This symbol indicates the possibility of death or serious injury.

⚠ CAUTION This symbol indicates the possibility of injury or damage to properties only.

■ Meanings of symbols used in this manual are as shown below.

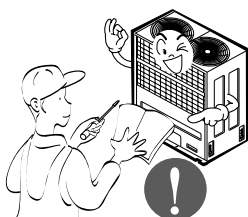
| | |
|---|---|
|  | Be sure not to do. |
|  | Be sure to follow the instruction. |

⚠ WARNING

■ Installation

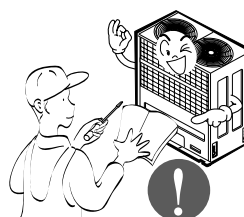
Have all electric work done by a licensed electrician according to "Electric Facility Engineering Standard" and "Interior Wire Regulations" and the instructions given in this manual and always use a special circuit.

- If the power source capacity is inadequate or electric work is performed improperly, electric shock or fire may result.



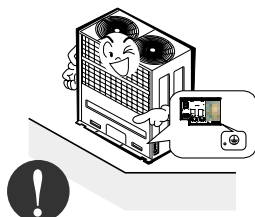
Ask the dealer or an authorized technician to install the air conditioner.

- Improper installation by the user may result in water leakage, electric shock, or fire.



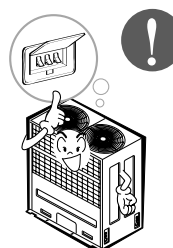
Always ground the product.

- There is risk of fire or electric shock.



Always install a dedicated circuit and breaker.

- Improper wiring or installation may cause fire or electric shock.



Safety Precautions

For re-installation of the installed product, always contact a dealer or an Authorized Service Center.

- There is risk of fire, electric shock, explosion, or injury.



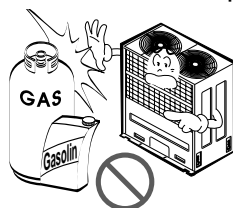
Do not install, remove, or re-install the unit by yourself (customer).

- There is risk of fire, electric shock, explosion, or injury.



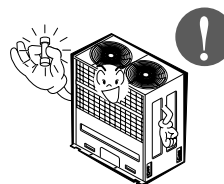
Do not store or use flammable gas or combustibles near the air conditioner.

- There is risk of fire or failure of product.



Use the correctly rated breaker or fuse.

- There is risk of fire or electric shock.



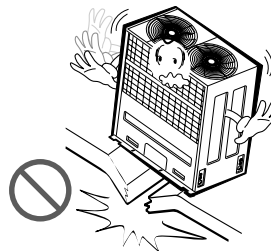
Prepare for strong wind or earthquake and install the unit at the specified place.

- Improper installation may cause the unit to topple and result in injury.



Do not install the product on a defective installation stand.

- It may cause injury, accident, or damage to the product.



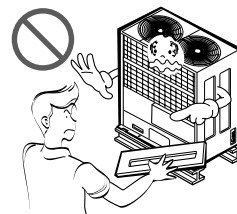
When installing and moving the air conditioner to another site, do not charge it with a different refrigerant from the refrigerant specified on the unit.

- If a different refrigerant or air is mixed with the original refrigerant, the refrigerant cycle may malfunction and the unit may be damaged.



Do not reconstruct to change the settings of the protection devices.

- If the pressure switch, thermal switch, or other protection device is shorted and operated forcibly, or parts other than those specified by LGE are used, fire or explosion may result.



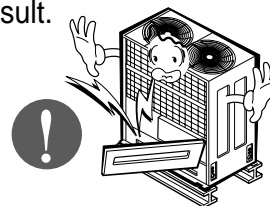
Ventilate before operating air conditioner when gas leaked out.

- It may cause explosion, fire, and burn.



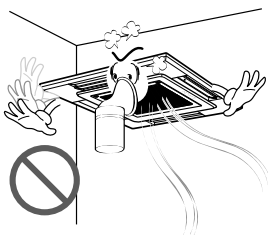
Securely install the cover of control box and the panel.

- If the cover and panel are not installed securely, dust or water may enter the outdoor unit and fire or electric shock may result.



If the air conditioner is installed in a small room, measures must be taken to prevent the refrigerant concentration from exceeding the safety limit when the refrigerant leaks.

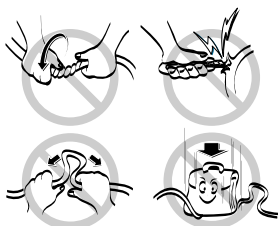
- Consult the dealer regarding the appropriate measures to prevent the safety limit from being exceeded. Should the refrigerant leak and cause the safety limit to be exceeded, hazards due to lack of oxygen in the room could result.



■ Operation

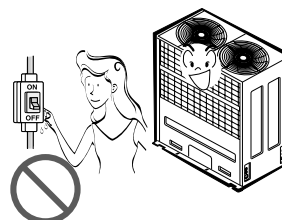
Do not damage or use an unspecified power cord.

- There is risk of fire, electric shock, explosion, or injury.



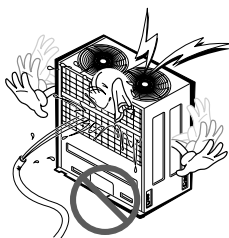
Use a dedicated outlet for this appliance.

- There is risk of fire or electrical shock.



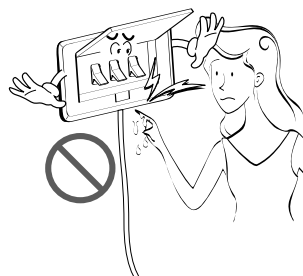
Be cautious that water could not enter the product.

- There is risk of fire, electric shock, or product damage.



Do not touch the power switch with wet hands.

- There is risk of fire, electric shock, explosion, or injury.



Safety Precautions

When the product is soaked (flooded or submerged), contact an Authorized Service Center.

- There is risk of fire or electric shock.



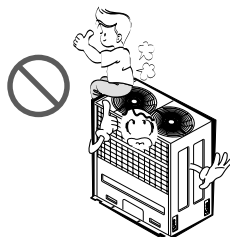
Be cautious not to touch the sharp edges when installing.

- It may cause injury.



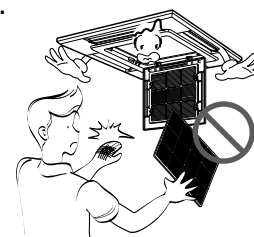
Take care to ensure that nobody could step on or fall onto the outdoor unit.

- This could result in personal injury and product damage.



Do not open the inlet grill of the product during operation. (Do not touch the electrostatic filter, if the unit is so equipped.)

- There is risk of physical injury, electric shock, or product failure.

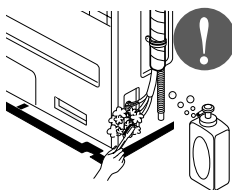


CAUTION

Installation

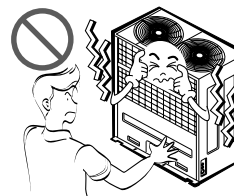
Always check for gas (refrigerant) leakage after installation or repair of product.

- Low refrigerant levels may cause failure of product.



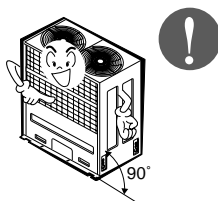
Do not install the product where the noise or hot air from the outdoor unit could damage the neighborhoods.

- It may cause a problem for your neighbors.



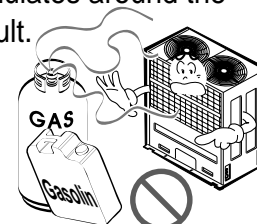
Keep level even when installing the product.

- To avoid vibration or water leakage.



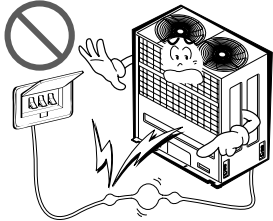
Do not install the unit where combustible gas may leak.

- If the gas leaks and accumulates around the unit, an explosion may result.



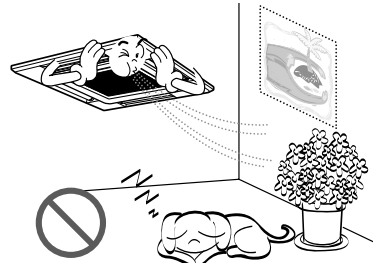
Use power cables of sufficient current carrying capacity and rating.

- Cables that are too small may leak, generate heat, and cause a fire.



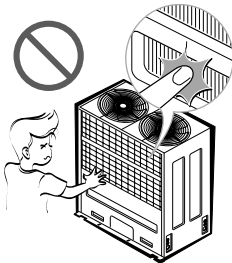
Do not use the product for special purposes, such as preserving foods, works of art, etc. It is a consumer air conditioner, not a precision refrigeration system.

- There is risk of damage or loss of property.



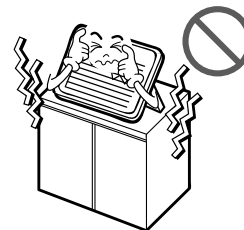
Keep the unit away from children. The heat exchanger is very sharp.

- It can cause the injury, such as cutting the finger. Also the damaged fin may result in degradation of capacity.



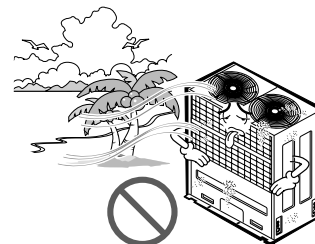
When installing the unit in a hospital, communication station, or similar place, provide sufficient protection against noise.

- The inverter equipment, private power generator, high-frequency medical equipment, or radio communication equipment may cause the air conditioner to operate erroneously, or fail to operate. On the other hand, the air conditioner may affect such equipment by creating noise that disturbs medical treatment or image broadcasting.



Do not install the product where it is exposed to sea wind (salt spray) directly.

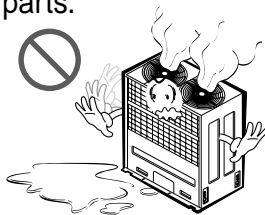
- It may cause corrosion on the product. Corrosion, particularly on the condenser and evaporator fins, could cause product malfunction or inefficient operation.



■ Operation

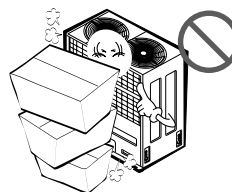
Do not use the air conditioner in special environments.

- Oil, steam, sulfuric smoke, etc. can significantly reduce the performance of the air conditioner or damage its parts.



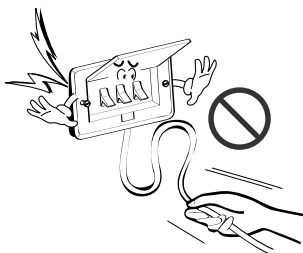
Do not block the inlet or outlet.

- It may cause failure of appliance or accident.



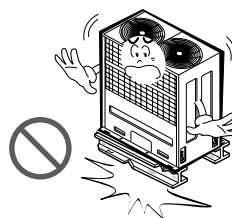
Make the connections securely so that the outside force of the cable may not be applied to the terminals.

- Inadequate connection and fastening may generate heat and cause a fire.



Be sure the installation area does not deteriorate with age.

- If the base collapses, the air conditioner could fall with it, causing property damage, product failure, or personal injury.



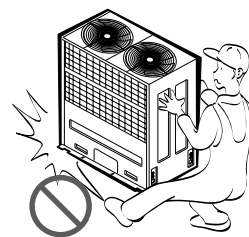
Install and insulate the drain hose to ensure that water is drained away properly based on the installation manual.

- A bad connection may cause water leakage.



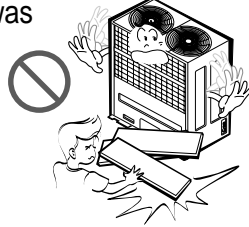
Be very careful about product transportation.

- Only one person should not carry the product if it weighs more than 20 kg.
- Some products use PP bands for packaging. Do not use any PP bands for a means of transportation. It is dangerous.
- Do not touch the heat exchanger fins. Doing so may cut your fingers.
- When transporting the Outdoor Unit, suspending it at the specified positions on the unit base. Also support the Outdoor Unit at four points so that it cannot slip sideways.



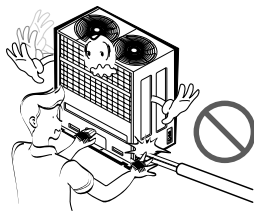
Safely dispose of the packing materials.

- Packing materials, such as nails and other metal or wooden parts, may cause stabs or other injuries.
- Tear apart and throw away plastic packaging bags so that children may not play with them. If children play with a plastic bag which was not torn apart, they face the risk of suffocation.



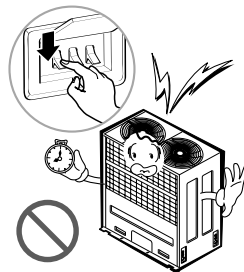
Do not touch any of the refrigerant piping during and after operation.

- It can cause a burn or frostbite.



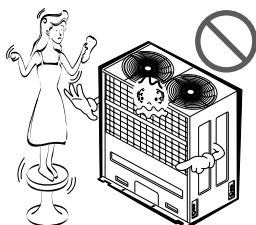
Do not directly turn off the main power switch after stopping operation.

- Wait at least 5 minutes before turning off the main power switch. Otherwise it may result in water leakage or other problems.



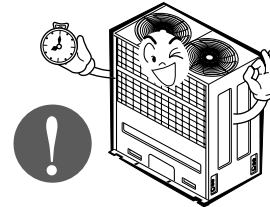
Use a firm stool or ladder when cleaning or maintaining the air conditioner.

- Be careful and avoid personal injury.



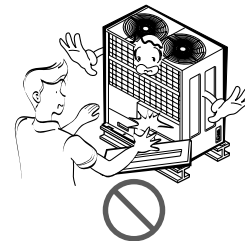
Turn on the power at least 12 hours before starting operation.(In case of outdoor temperature 5°C below)

- Starting operation immediately after turning on the main power switch can result in severe damage to internal parts. Keep the power switch turned on during the operational season.

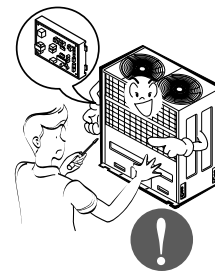


Do not operate the air conditioner with the panels or guards removed.

- Rotating, hot, or high-voltage parts can cause injuries.

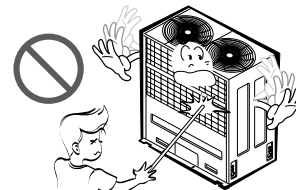


Auto-addressing should be done in condition of connecting the power of all indoor and outdoor units. Auto-addressing should also be done in case of changing the Indoor Unit board(PCB).



Do not insert hands or other objects through the air inlet or outlet while the air conditioner is plugged in.

- There are sharp and moving parts that could cause personal injury.



Part 1

General Information

| | |
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1. Model Names

1.1 Indoor Unit

| Category | | Chassis Name | Capacity(Btu/h(kW)) | | | | | | | | | | |
|------------------------------|---------------|--------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | | 7k (2.1) | 9k (2.6) | 12k (3.5) | 18k (5.3) | 21K (6.2) | 24k (7.0) | 28k (8.2) | 36k (10.6) | 38k (11.1) | 42k (12.3) | 4 8 k (14.1) |
| Wall Mounted (General) | | SR | 076SRA0 072SRA0 | 096SRA0 092SRA0 | 126SRA0 122SRA0 | | | | | | | | |
| | | ST | | | | 186STA0 182STA0 | | | | | | | |
| ART COOL | Deluxe | SU | 076SU*0 072SU*0 | 096SU*0 092SU*0 | 126SU*0 122SU*0 | 186S3*0 122S3*0 | | 246S3*0 242S3*0 | | | | | |
| | ART COOL | SP | | 096SP*0 092SP*0 | 126SP*0 122SP*0 | | | | | | | | |
| | ART COOL Wide | SV | | | 126SV*0 122SV*0 | 186SV*0 182SV*0 | | | | | | | |
| Ceiling Cassette | 1 Way | TC | 076TCA0 072TCA0 | 096TCA0 092TCA0 | 126TCA0 122TCA0 | | | | | | | | |
| | 4 Way | TE | | | 126TEA0 122TEA0 | 186TEA0 182TEA0 | | | | | | | |
| | | TD | | | | | 216TDA0 212TDA0 | 246TDA0 242TDA0 | 286TDA0 282TDA0 | 366TDA0 362TDA0 | 386TDA0 382TDA0 | 426TDA0 422TDA0 | 486TDA 482TDA0 |
| Ceiling Concealed Duct | High Static | BH | | | | 186BHA0 182BHA0 | 216BHA0 212BHA0 | 246BHA0 242BHA0 | | | | | |
| | | BG | | | | | | | 286BGA0 282BGA0 | 366BGA0 362BGA0 | 386BGA0 382BGA0 | 426BGA0 422BGA0 | |
| | | BE | | | | | | | | | | | 486BEA0 482BEA0 |
| | Low Static | BT | 076BTG0 072BTG0 | 096BTG0 092BTG0 | 126BTG0 122BTG0 | | | | | | | | |
| Ceiling & Floor | Convertible | VB | | | | 186VBA0 182VBA0 | | 246VBA0 242VBA0 | | | | | |

| | |
|----------------------|------|
| Cooling Only | LRNV |
| Heat Pump | LRNN |
| 1Ø, 220 ~ 240V, 50Hz | 6 |
| 1Ø, 220V, 60Hz | 2 |

※These are model names of the basic function

1.2 Outdoor Unit






| Power Supply | 5HP | 6HP | 8HP | 10HP | 12HP | 14HP | 16HP | 18HP | 20HP | 22HP |
|----------------------|-------|-------|-------|--------|--------|--------|---------|---------|---------|---------|
| 3Ø, 380 ~ 415V, 50Hz | 508T0 | 608T0 | 808T0 | 1008T0 | 1208T0 | 1408T0 | 1608TS0 | 1808TS0 | 2008TS0 | 2208TS0 |
| 3Ø, 380V, 60Hz | 509T0 | 609T0 | 809T0 | 1009T0 | 1209T0 | 1409T0 | 1609TS0 | 1809TS0 | 2009TS0 | 2209TS0 |
| 3Ø, 220V, 60Hz | | | 80BT0 | 100BT0 | 120BT0 | | | | | |

| Power Supply | 24HP | 26HP | 28HP | 30HP | 32HP | 34HP | 36HP | 38HP | 40HP |
|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 3Ø, 380 ~ 415V, 50Hz | 2408TS0 | 2608TR0 | 2808TR0 | 3008TR0 | 3208TR0 | 3408TR0 | 3608TR0 | 3808TR0 | 4008TR0 |
| 3Ø, 380V, 60Hz | 2409TS0 | 2609TS0 | 2809TR0 | 3009TR0 | 3209TR0 | 3409TR0 | 3609TR0 | 3809TR0 | 4009TR0 |

| | |
|--------------|------|
| Cooling Only | LRUV |
| Heat Pump | LRUN |

2. External Appearance

2.1 Indoor Unit

| | |
|--|---|
| <p>Ceiling Cassette- 1Way</p> <p>LRNV076TCA0 / LRNN076TCA0 / LRNV072TCA0 / LRNN072TCA0 LRNV096TCA0 / LRNN096TCA0 / LRNV092TCA0 / LRNN092TCA0 LRNV126TCA0 / LRNN126TCA0 / LRNV122TCA0 / LRNN122TCA0</p>  | <p>Ceiling Cassette- 4Way</p> <p>LRNV126TEA0 / LRNN126TEA0 / LRNV122TEA0 / LRNN122TEA0 LRNV186TEA0 / LRNN186TEA0 / LRNV182TEA0 / LRNN182TEA0 LRNV216TDA0 / LRNN216TDA0 / LRNV212TDA0 / LRNN212TDA0 LRNV246TDA0 / LRNN246TDA0 / LRNV242TDA0 / LRNN242TDA0 LRNV286TDA0 / LRNN286TDA0 / LRNV282TDA0 / LRNN282TDA0 LRNV366TDA0 / LRNN366TDA0 / LRNV362TDA0 / LRNN362TDA0 LRNV386TDA0 / LRNN386TDA0 / LRNV382TDA0 / LRNN382TDA0 LRNV426TDA0 / LRNN426TDA0 / LRNV422TDA0 / LRNN422TDA0 LRNV486TDA0 / LRNN486TDA0 / LRNV482TDA0 / LRNN482TDA0</p>  |
| <p>Ceiling Concealed Duct - High Static</p> <p>LRNV186BHA0 / LRNN186BHA0 / LRNV182BHA0 / LRNN182BHA0 LRNV216BHA0 / LRNN216BHA0 / LRNV212BHA0 / LRNN212BHA0 LRNV246BHA0 / LRNN246BHA0 / LRNV242BHA0 / LRNN242BHA0 LRNV286BGA0 / LRNN286BGA0 / LRNV282BGA0 / LRNN282BGA0 LRNV366BGA0 / LRNN366BGA0 / LRNV362BGA0 / LRNN362BGA0 LRNV386BGA0 / LRNN386BGA0 / LRNV382BGA0 / LRNN382BGA0 LRNV426BGA0 / LRNN426BGA0 / LRNV422BGA0 / LRNN422BGA0 LRNV486BEA0 / LRNN486BEA0 / LRNV482BEA0 / LRNN482BEA0</p>  | <p>Ceiling Concealed Duct - Low Static</p> <p>LRNV076BTG0 / LRNN076BTG0 / LRNV072BTG0 / LRNN072BTG0 LRNV096BTG0 / LRNN096BTG0 / LRNV092BTG0 / LRNN092BTG0 LRNV126BTG0 / LRNN126BTG0 / LRNV122BTG0 / LRNN122BTG0</p>  |
| <p>Wall Mounted</p> <p>LRNV076SRA0 / LRNN076SRA0 / LRNV072SRA0 / LRNN072SRA0 LRNV096SRA0 / LRNN096SRA0 / LRNV092SRA0 / LRNN092SRA0 LRNV126SRA0 / LRNN126SRA0 / LRNV122SRA0 / LRNN122SRA0 LRNV186STA0 / LRNN186STA0 / LRNV182STA0 / LRNN182STA0</p>  | <p>ART COOL Deluxe</p> <p>LRNV076SU*0 / LRNN076SU*0 / LRNV072SU*0 / LRNN072SU*0 LRNV096SU*0 / LRNN096SU*0 / LRNV092SU*0 / LRNN092SU*0 LRNV126SU*0 / LRNN126SU*0 / LRNV122SU*0 / LRNN122SU*0 LRNV186S3*0 / LRNN186S3*0 / LRNV182S3*0 / LRNN182S3*0 LRNV246S3*0 / LRNN246S3*0 / LRNV242S3*0 / LRNN242S3*0</p> <p>* B : Blue M : Metal D : Wood R : Mirror C : Cherry W : White</p>  |
| <p>ART COOL</p> <p>LRNV096SP*0 / LRNN096SP*0 / LRNV092SP*0 / LRNN092SP*0 LRNV126SP*0 / LRNN126SP*0 / LRNV122SP*0 / LRNN122SP*0</p> <p>* B : Blue M : Metal D : Wood</p>  | <p>ART COOL Wide</p> <p>LRNV126SV*0 / LRNN126SV*0 / LRNV122SV*0 / LRNN122SV*0 LRNV186SV*0 / LRNN186SV*0 / LRNV182SV*0 / LRNN182SV*0</p> <p>* B : Blue M : Metal D : Wood</p>  |
| <p>Ceiling & Floor - Convertible</p> <p>LRNV186VBA0 / LRNN186VBA0 / LRNV182VBA0 / LRNN182VBA0 LRNV246VBA0 / LRNN246VBA0 / LRNV242VBA0 / LRNN242VBA0</p>  | <p>※ These are model names of the basic function.</p> |

2.2 Outdoor Unit

LRUV508T0 / LRUN508T0 / LRUV509T0 / LRUN509T0
LRUV608T0 / LRUN608T0 / LRUV609T0 / LRUN609T0
LRUV808T0 / LRUV809T0



5, 6, 8HP

LRUN808T0 / LRUN809T0 / LRUV80BT0 / LRUN80BT0
LRUV1008T0 / LRUN1008T0 / LRUV1009T0 / LRUN1009T0 / LRUV100BT0 / LRUN100BT0
LRUV1208T0 / LRUN1208T0 / LRUV1209T0 / LRUN1209T0 / LRUV120BT0 / LRUN120BT0
LRUV1408T0 / LRUN1408T0 / LRUV1409T0 / LRUN1409T0



8, 10, 12, 14HP

LRUV1608TS0 / LRUN1608TS0 / LRUV1609TS0 / LRUN1609TS0
LRUV1808TS0 / LRUN1808TS0 / LRUV1809TS0 / LRUN1809TS0
LRUV2008TS0 / LRUN2008TS0 / LRUV2009TS0 / LRUN2009TS0
LRUV2208TS0 / LRUN2208TS0 / LRUV2209TS0 / LRUN2209TS0
LRUV2408TS0 / LRUN2408TS0 / LRUV2409TS0 / LRUN2409TS0
LRUV2609TS0 / LRUN2609TS0



16, 18, 20, 22, 24, 26HP

LRUV2608TR0 / LRUN2608TR0
LRUV2808TR0 / LRUN2808TR0 / LRUV2809TR0 / LRUN2809TR0
LRUV3008TR0 / LRUN3008TR0 / LRUV3009TR0 / LRUN3009TR0
LRUV3208TR0 / LRUN3208TR0 / LRUV3209TR0 / LRUN3209TR0
LRUV3408TR0 / LRUN3408TR0 / LRUV3409TR0 / LRUN3409TR0
LRUV3608TR0 / LRUN3608TR0 / LRUV3609TR0 / LRUN3609TR0
LRUV3808TR0 / LRUN3808TR0 / LRUV3809TR0 / LRUN3809TR0
LRUV4008TR0 / LRUN4008TR0 / LRUV4009TR0 / LRUN4009TR0



26, 28, 30, 32, 34, 36, 38, 40HP

3. Combination of Outdoor Units

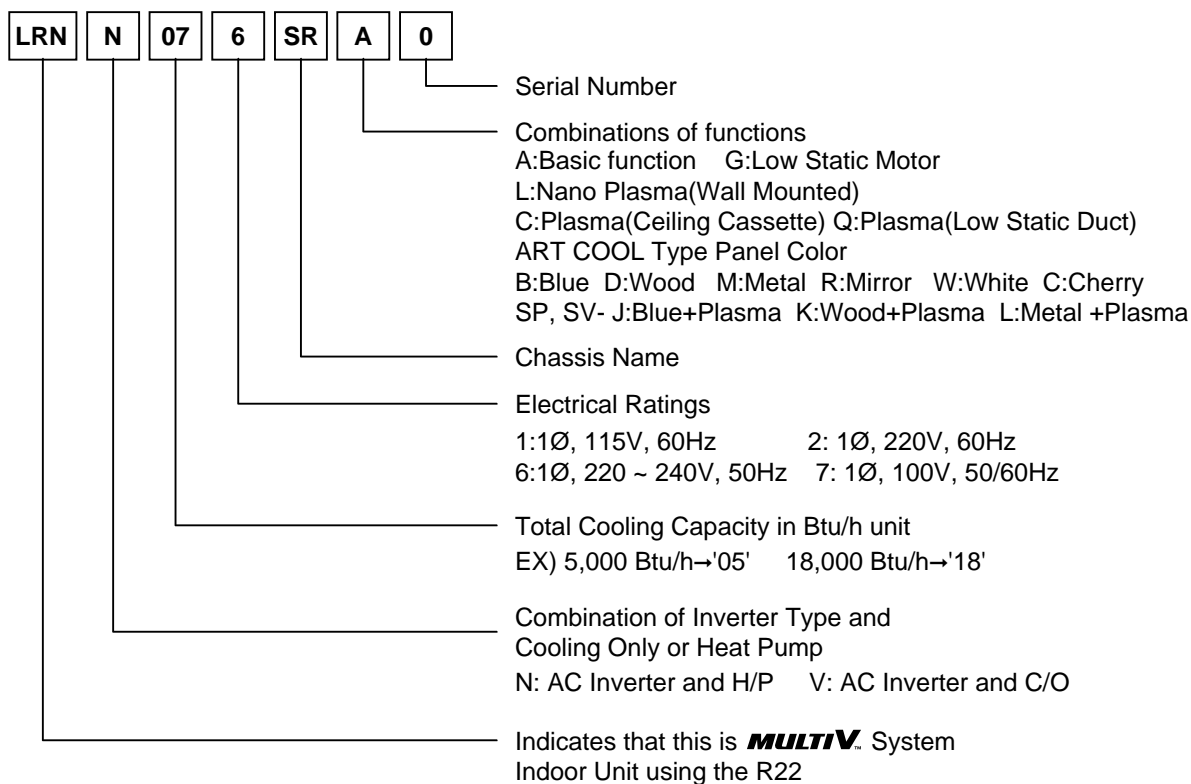
| System Capacity | Number of Units 50Hz(60Hz) | Module | | | | | | |
|-----------------|-------------------------------|--------|---|---|----|------|------|----|
| | | 5 | 6 | 8 | 10 | 12 | 14 | 16 |
| 5HP | 1(1) | 1 | | | | | | |
| 6HP | 1(1) | | 1 | | | | | |
| 8HP | 1(1) | | | 1 | | | | |
| 10HP | 1(1) | | | | 1 | | | |
| 12HP | 1(1) | | | | | 1 | | |
| 14HP | 1(1) | | | | | | 1 | |
| 16HP | 2(2) | | | 2 | | | | |
| 18HP | 2(2) | | | 1 | 1 | | | |
| 20HP | 2(2) | | | | 2 | | | |
| 22HP | 2(2) | | | | 1 | 1 | | |
| 24HP | 2(2) | | | | | 2 | | |
| 26HP | 3(2) | | | 2 | 1 | *(1) | *(1) | |
| 28HP | 3(3) | | | 1 | 2 | | | |
| 30HP | 3(3) | | | | 3 | | | |
| 32HP | 3(3) | | | | 2 | 1 | | |
| 34HP | 3(3) | | | | 2 | | 1 | |
| 36HP | 3(3) | | | | | 3 | | |
| 38HP | 3(3) | | | | | 2 | 1 | |
| 40HP | 3(3) | | | | | 2 | | 1 |

■ Up to a maximum 40HP are realized by combining 8, 10, 12, 14 and 16HP

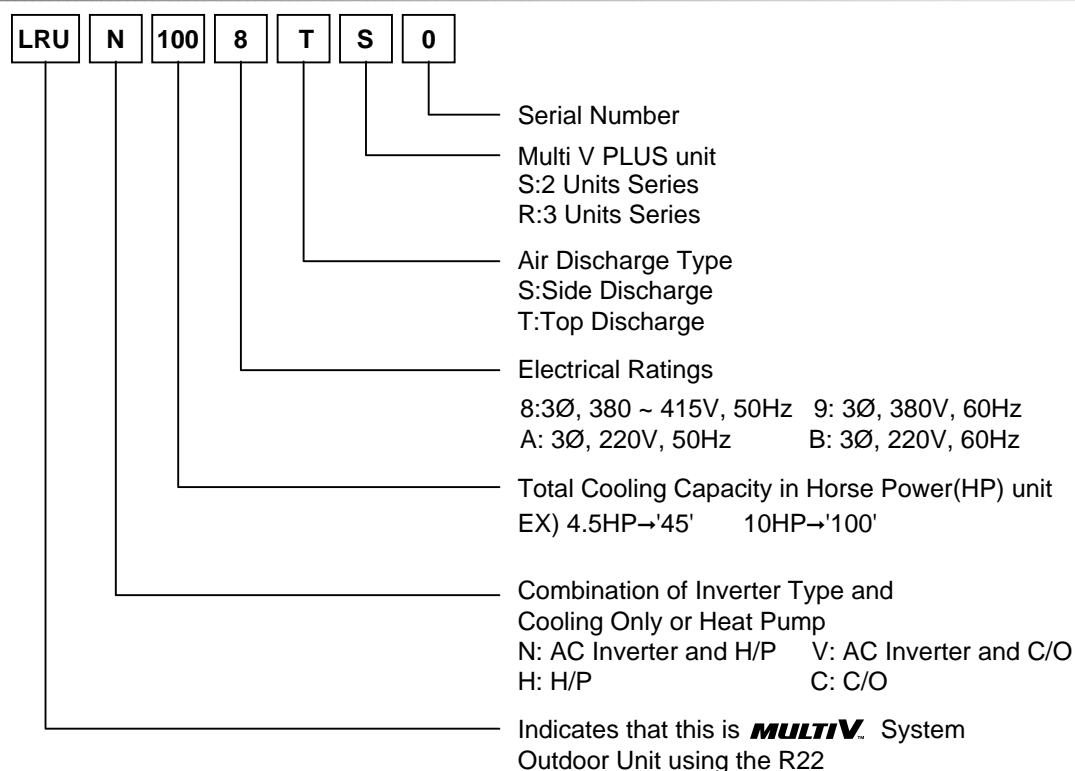
■ * :3Ø, 380V, 60Hz

4. Nomenclature

4.1 Indoor Unit



4.2 Outdoor Unit



5. Outdoor Units Information



CAUTION: A ratio of the connectable Indoor Units with the Outdoor Unit : within 50 ~ 130%

Power Supply: Outdoor Unit (3Ø, 380 ~ 415V, 50Hz)

■ Cooling Only

| Unit | | 1 Outdoor Unit(Half size) | | | 1 Outdoor Unit | | |
|--------------------------------------|------------------------|--|--|--|---|---|---|
| System(HP) | | 5 | 6 | 8 | 10 | 12 | 14 |
| Model | | LRUV508T0 | LRUV608T0 | LRUV808T0 | LRUV1008T0 | LRUV1208T0 | LRUV1408T0 |
| Product Charge | kg | 5 | 5 | 6 | 10 | 10 | 10 |
| CF(Correction Factor) | kg | 0 | 0 | 0 | -1 | -1 | -1 |
| Max. Connectable No. of Indoor Units | | 6 | 8 | 13 | 16 | 16 | 16 |
| Net Weight | kg(lbs) | 150(330.7) | 150(330.7) | 150(330.7) | 300(661.4) | 300(661.4) | 300(661.4) |
| Dimensions (W x H x D) | mm(inch) | 806 x 1555 x 730 (31.7 x 61.2 x 28.7) | 806 x 1555 x 730 (31.7 x 61.2 x 28.7) | 806 x 1555 x 730 (31.7 x 61.2 x 28.7) | 1280 x 1555 x 730 (50.4 x 61.2 x 28.7) | 1280 x 1555 x 730 (50.4 x 61.2 x 28.7) | 1280 x 1555 x 730 (50.4 x 61.2 x 28.7) |
| Pipe Connections | Liquid Pipes(mm(inch)) | Ø9.52(3/8) | Ø9.52(3/8) | Ø12.7(1/2) | Ø12.7(1/2) | Ø12.7(1/2) | Ø12.7(1/2) |
| | Gas Pipes(mm(inch)) | Ø19.05(3/4) | Ø22.2(7/8) | Ø28.58(1 1/8) | Ø28.58(1 1/8) | Ø28.58(1 1/8) | Ø28.58(1 1/8) |

| Unit | | 2 Outdoor Units | | | | | 3 Outdoor Units |
|--------------------------------------|------------------------|---|---|---|---|---|---|
| System(HP) | | 16 | 18 | 20 | 22 | 24 | 26 |
| Model | | LRUV1608TS0 | LRUV1808TS0 | LRUV2008TS0 | LRUV2208TS0 | LRUV2408TS0 | LRUV2608TR0 |
| | | LRUV808TS0 | LRUV1008TS0 | LRUV1008TS0 | LRUV1208TS0 | LRUV1208TS0 | LRUV1008TR0 |
| | | LRUC808TS0 | LRUC808TS0 | LRUC1008TS0 | LRUC1008TS0 | LRUC1208TS0 | LRUC808TR0 |
| | | | | | | | LRUC808TR0 |
| Product Charge | kg | 10 x 2 | 10 x 2 | 10 x 2 | 10 x 2 | 10 x 2 | 10 x 3 |
| CF(Correction Factor) | kg | -2 | -2 | -2 | -2 | -2 | 0 |
| Max. Connectable No. of Indoor Units | | 20 | 20 | 20 | 22 | 24 | 26 |
| Net Weight | kg(lbs) | 300(661.4) x 2 | 300(661.4) x 2 | 300(661.4) x 2 | 300(661.4) x 2 | 300(661.4) x 2 | 300(661.4) x 3 |
| Dimensions (W x H x D) | mm(inch) | (1280 x 1555 x 730) x 2 ((50.4 x 61.2 x 28.7) x 2) | (1280 x 1555 x 730) x 2 ((50.4 x 61.2 x 28.7) x 2) | (1280 x 1555 x 730) x 2 ((50.4 x 61.2 x 28.7) x 2) | (1280 x 1555 x 730) x 2 ((50.4 x 61.2 x 28.7) x 2) | (1280 x 1555 x 730) x 2 ((50.4 x 61.2 x 28.7) x 2) | (1280 x 1555 x 730) x 3 ((50.4 x 61.2 x 28.7) x 3) |
| Pipe Connections | Liquid Pipes(mm(inch)) | Ø19.05(3/4) | Ø19.05(3/4) | Ø19.05(3/4) | Ø19.05(3/4) | Ø19.05(3/4) | Ø22.2(7/8) |
| | Gas Pipes(mm(inch)) | Ø38.1(1 1/2) | Ø38.1(1 1/2) | Ø38.1(1 1/2) | Ø38.1(1 1/2) | Ø38.1(1 1/2) | Ø44.5(1 3/4) |

| Unit | | 3 Outdoor Units | | | | | |
|--------------------------------------|------------------------|---|---|---|---|---|---|
| System(HP) | | 28 | 30 | 32 | 34 | 36 | 40 |
| Model | | LRUV2808TR0 | LRUV3008TR0 | LRUV3208TR0 | LRUV3408TR0 | LRUV3608TR0 | LRUV4008TR0 |
| | | LRUV808TR0 | LRUV1008TR0 | LRUV1208TR0 | LRUV1408TR0 | LRUV1208TR0 | LRUV1608TR0 |
| | | LRUC1008TR0 | LRUC1008TR0 | LRUC1008TR0 | LRUC1008TR0 | LRUC1208TR0 | LRUC1208TR0 |
| | | LRUC1008TR0 | LRUC1008TR0 | LRUC1008TR0 | LRUC1008TR0 | LRUC1208TR0 | LRUC1208TR0 |
| Product Charge | kg | 10 x 3 | 10 x 3 | 10 x 3 | 10 x 3 | 10 x 3 | 10 x 3 |
| CF(Correction Factor) | kg | 0 | 0 | 0 | 1 | 1 | 2 |
| Max. Connectable No. of Indoor Units | | 32 | 32 | 32 | 34 | 36 | 40 |
| Net Weight | kg(lbs) | 300(661.4) x 3 | 300(661.4) x 3 | 300(661.4) x 3 | 300(661.4) x 3 | 300(661.4) x 3 | 300(661.4) x 3 |
| Dimensions (W x H x D) | mm(inch) | (1280 x 1555 x 730) x 3 ((50.4 x 61.2 x 28.7) x 3) | (1280 x 1555 x 730) x 3 ((50.4 x 61.2 x 28.7) x 3) | (1280 x 1555 x 730) x 3 ((50.4 x 61.2 x 28.7) x 3) | (1280 x 1555 x 730) x 3 ((50.4 x 61.2 x 28.7) x 3) | (1280 x 1555 x 730) x 3 ((50.4 x 61.2 x 28.7) x 3) | (1280 x 1555 x 730) x 3 ((50.4 x 61.2 x 28.7) x 3) |
| Pipe Connections | Liquid Pipes(mm(inch)) | Ø22.2(7/8) | Ø22.2(7/8) | Ø22.2(7/8) | Ø22.2(7/8) | Ø22.2(7/8) | Ø22.2(7/8) |
| | Gas Pipes(mm(inch)) | Ø44.5(1 3/4) | Ø44.5(1 3/4) | Ø44.5(1 3/4) | Ø44.5(1 3/4) | Ø44.5(1 3/4) | Ø44.5(1 3/4) |

■ Heat Pump

| Unit | | 1 Outdoor Unit(Half size) | | 1 Outdoor Unit | | | |
|--------------------------------------|------------------------|--|--|---|---|---|---|
| System(HP) | | 5 | 6 | 8 | 10 | 12 | 14 |
| Model | | LRUN508T0 | LRUN608T0 | LRUN808T0 | LRUN1008T0 | LRUN1208T0 | LRUN1408T0 |
| Product Charge | kg | 5 | 5 | 10 | 10 | 10 | 10 |
| CF(Correction Factor) | kg | 0 | 0 | -1 | -1 | -1 | -1 |
| Max. Connectable No. of Indoor Units | | 6 | 8 | 13 | 16 | 16 | 16 |
| Net Weight | kg(lbs) | 150(330.7) | 150(330.7) | 300(661.4) | 300(661.4) | 300(661.4) | 300(661.4) |
| Dimensions (W x H x D) | mm(inch) | 806 x 1555 x 730 (31.7 x 61.2 x 28.7) | 806 x 1555 x 730 (31.7 x 61.2 x 28.7) | 1280 x 1555 x 730 (50.4 x 61.2 x 28.7) | 1280 x 1555 x 730 (50.4 x 61.2 x 28.7) | 1280 x 1555 x 730 (50.4 x 61.2 x 28.7) | 1280 x 1555 x 730 (50.4 x 61.2 x 28.7) |
| Pipe Connections | Liquid Pipes(mm(inch)) | Ø9.52(3/8) | Ø9.52(3/8) | Ø12.7(1/2) | Ø12.7(1/2) | Ø12.7(1/2) | Ø12.7(1/2) |
| | Gas Pipes(mm(inch)) | Ø19.05(3/4) | Ø22.2(7/8) | Ø28.58(1 1/8) | Ø28.58(1 1/8) | Ø28.58(1 1/8) | Ø28.58(1 1/8) |

| Unit | | 2 Outdoor Units | | | | | 3 Outdoor Units |
|--------------------------------------|------------------------|---|---|---|---|---|---|
| System(HP) | | 16 | 18 | 20 | 22 | 24 | 26 |
| Model | | LRUN1608TS0 | LRUN1808TS0 | LRUN2008TS0 | LRUN2208TS0 | LRUN2408TS0 | LRUN2608TR0 |
| | | LRUN808TS0 | LRUN1008TS0 | LRUN1008TS0 | LRUN1208TS0 | LRUN1208TS0 | LRUN1008TR0 |
| | | LRUH808TS0 | LRUH808TS0 | LRUH1008TS0 | LRUH1008TS0 | LRUH1208TS0 | LRUH808TR0 |
| | | | | | | | LRUH808TR0 |
| Product Charge | kg | 10 x 2 | 10 x 2 | 10 x 2 | 10 x 2 | 10 x 2 | 10 x 3 |
| CF(Correction Factor) | kg | -2 | -2 | -2 | -2 | -2 | 0 |
| Max. Connectable No. of Indoor Units | | 20 | 20 | 20 | 22 | 24 | 26 |
| Net Weight | kg(lbs) | 300(661.4) x 2 | 300(661.4) x 2 | 300(661.4) x 2 | 300(661.4) x 2 | 300(661.4) x 2 | 300(661.4) x 3 |
| Dimensions (W x H x D) | mm(inch) | (1280 x 1555 x 730) x 2 ((50.4 x 61.2 x 28.7) x 2) | (1280 x 1555 x 730) x 2 ((50.4 x 61.2 x 28.7) x 2) | (1280 x 1555 x 730) x 2 ((50.4 x 61.2 x 28.7) x 2) | (1280 x 1555 x 730) x 2 ((50.4 x 61.2 x 28.7) x 2) | (1280 x 1555 x 730) x 2 ((50.4 x 61.2 x 28.7) x 2) | (1280 x 1555 x 730) x 3 ((50.4 x 61.2 x 28.7) x 3) |
| Pipe Connections | Liquid Pipes(mm(inch)) | Ø19.05(3/4) | Ø19.05(3/4) | Ø19.05(3/4) | Ø19.05(3/4) | Ø19.05(3/4) | Ø22.2(7/8) |
| | Gas Pipes(mm(inch)) | Ø38.1(1 1/2) | Ø38.1(1 1/2) | Ø38.1(1 1/2) | Ø38.1(1 1/2) | Ø38.1(1 1/2) | Ø44.5(1 3/4) |

| Unit | | 3 Outdoor Units | | | | | |
|--------------------------------------|------------------------|---|---|---|---|---|---|
| System(HP) | | 28 | 30 | 32 | 34 | 36 | 40 |
| Model | | LRUN2808TR0 | LRUN3008TR0 | LRUN3208TR0 | LRUN3408TR0 | LRUN3608TR0 | LRUN3808TR0 |
| | | LRUN808TR0 | LRUN1008TR0 | LRUN1208TR0 | LRUN1408TR0 | LRUN1208TR0 | LRUN1608TR0 |
| | | LRUH1008TR0 | LRUH1008TR0 | LRUH1008TR0 | LRUH1008TR0 | LRUH1208TR0 | LRUH1208TR0 |
| | | LRUH1008TR0 | LRUH1008TR0 | LRUH1008TR0 | LRUH1008TR0 | LRUH1208TR0 | LRUH1208TR0 |
| Product Charge | kg | 10 x 3 | 10 x 3 | 10 x 3 | 10 x 3 | 10 x 3 | 10 x 3 |
| CF(Correction Factor) | kg | 0 | 0 | 0 | 1 | 1 | 2 |
| Max. Connectable No. of Indoor Units | | 32 | 32 | 32 | 34 | 36 | 40 |
| Net Weight | kg(lbs) | 300(661.4) x 3 | 300(661.4) x 3 | 300(661.4) x 3 | 300(661.4) x 3 | 300(661.4) x 3 | 300(661.4) x 3 |
| Dimensions (W x H x D) | mm(inch) | (1280 x 1555 x 730) x 3 ((50.4 x 61.2 x 28.7) x 3) | (1280 x 1555 x 730) x 3 ((50.4 x 61.2 x 28.7) x 3) | (1280 x 1555 x 730) x 3 ((50.4 x 61.2 x 28.7) x 3) | (1280 x 1555 x 730) x 3 ((50.4 x 61.2 x 28.7) x 3) | (1280 x 1555 x 730) x 3 ((50.4 x 61.2 x 28.7) x 3) | (1280 x 1555 x 730) x 3 ((50.4 x 61.2 x 28.7) x 3) |
| Pipe Connections | Liquid Pipes(mm(inch)) | Ø22.2(7/8) | Ø22.2(7/8) | Ø22.2(7/8) | Ø22.2(7/8) | Ø22.2(7/8) | Ø22.2(7/8) |
| | Gas Pipes(mm(inch)) | Ø44.5(1 3/4) | Ø44.5(1 3/4) | Ø44.5(1 3/4) | Ø44.5(1 3/4) | Ø44.5(1 3/4) | Ø44.5(1 3/4) |

Power Supply: Outdoor Unit (3Ø, 380V, 60Hz)

■ Cooling Only

| Unit | | 1 Outdoor Unit(Half size) | | | 1 Outdoor Unit | | |
|--------------------------------------|------------------------|--|--|--|---|---|---|
| System(HP) | | 5 | 6 | 8 | 10 | 12 | 14 |
| Model | | LRUV509T0 | LRUV609T0 | LRUV809T0 | LRUV1009T0 | LRUV1209T0 | LRUV1409T0 |
| Product Charge | kg | 5 | 5 | 6 | 10 | 10 | 10 |
| CF(Correction Factor) | kg | 0 | 0 | 0 | -1 | -1 | -1 |
| Max. Connectable No. of Indoor Units | | 6 | 8 | 13 | 16 | 16 | 16 |
| Net Weight | kg(lbs) | 150(330.7) | 150(330.7) | 150(330.7) | 300(661.4) | 300(661.4) | 300(661.4) |
| Dimensions (W x H x D) | mm(inch) | 806 x 1555 x 730 (31.7 x 61.2 x 28.7) | 806 x 1555 x 730 (31.7 x 61.2 x 28.7) | 806 x 1555 x 730 (31.7 x 61.2 x 28.7) | 1280 x 1555 x 730 (50.4 x 61.2 x 28.7) | 1280 x 1555 x 730 (50.4 x 61.2 x 28.7) | 1280 x 1555 x 730 (50.4 x 61.2 x 28.7) |
| Pipe Connections | Liquid Pipes(mm(inch)) | Ø9.52(3/8) | Ø9.52(3/8) | Ø12.7(1/2) | Ø12.7(1/2) | Ø12.7(1/2) | Ø12.7(1/2) |
| | Gas Pipes(mm(inch)) | Ø19.05(3/4) | Ø22.2(7/8) | Ø28.58(1 1/8) | Ø28.58(1 1/8) | Ø28.58(1 1/8) | Ø28.58(1 1/8) |

| Unit | | 2 Outdoor Units | | | | | |
|--------------------------------------|------------------------|---|---|---|---|---|---|
| System(HP) | | 16 | 18 | 20 | 22 | 24 | 26 |
| Model | | LRUV1609TS0 | LRUV1809TS0 | LRUV2009TS0 | LRUV2209TS0 | LRUV2409TS0 | LRUV2609TS0 |
| | | LRUV809TS0 | LRUV1009TS0 | LRUV1009TS0 | LRUV1209TS0 | LRUV1209TS0 | LRUV1409TS0 |
| | | LRUC809TS0 | LRUC809TS0 | LRUC1009TS0 | LRUC1009TS0 | LRUC1209TS0 | LRUC1209TS0 |
| Product Charge | kg | 10 x 2 | 10 x 2 | 10 x 2 | 10 x 2 | 10 x 2 | 10 x 2 |
| CF(Correction Factor) | kg | -2 | -2 | -2 | -2 | -2 | -1 |
| Max. Connectable No. of Indoor Units | | 20 | 20 | 20 | 22 | 24 | 26 |
| Net Weight | kg(lbs) | 300(661.4) x 2 | 300(661.4) x 2 | 300(661.4) x 2 | 300(661.4) x 2 | 300(661.4) x 2 | 300(661.4) x 2 |
| Dimensions (W x H x D) | mm(inch) | (1280 x 1555 x 730) x 2 (50.4 x 61.2 x 28.7) x 2 | (1280 x 1555 x 730) x 2 (50.4 x 61.2 x 28.7) x 2 | (1280 x 1555 x 730) x 2 (50.4 x 61.2 x 28.7) x 2 | (1280 x 1555 x 730) x 2 (50.4 x 61.2 x 28.7) x 2 | (1280 x 1555 x 730) x 2 (50.4 x 61.2 x 28.7) x 2 | (1280 x 1555 x 730) x 2 (50.4 x 61.2 x 28.7) x 2 |
| Pipe Connections | Liquid Pipes(mm(inch)) | Ø19.05(3/4) | Ø19.05(3/4) | Ø19.05(3/4) | Ø19.05(3/4) | Ø19.05(3/4) | Ø19.05(3/4) |
| | Gas Pipes(mm(inch)) | Ø38.1(1 1/2) | Ø38.1(1 1/2) | Ø38.1(1 1/2) | Ø38.1(1 1/2) | Ø38.1(1 1/2) | Ø38.1(1 1/2) |

| Unit | | 3 Outdoor Units | | | | | | |
|--------------------------------------|------------------------|---|---|---|---|---|---|---|
| System(HP) | | 28 | 30 | 32 | 34 | 36 | 38 | 40 |
| Model | | LRUV2809TR0 | LRUV3009TR0 | LRUV3209TR0 | LRUV3409TR0 | LRUV3609TR0 | LRUV3809TR0 | LRUV4008TR0 |
| | | LRUV809TR0 | LRUV1009TR0 | LRUV1209TR0 | LRUV1409TR0 | LRUV1209TR0 | LRUV1409TR0 | LRUV1609TR0 |
| | | LRUC1009TR0 | LRUC1009TR0 | LRUC1009TR0 | LRUC1009TR0 | LRUC1209TR0 | LRUC1209TR0 | LRUC1209TR0 |
| | | LRUC1009TR0 | LRUC1009TR0 | LRUC1009TR0 | LRUC1009TR0 | LRUC1209TR0 | LRUC1209TR0 | LRUC1209TR0 |
| Product Charge | kg | 10 x 3 | 10 x 3 | 10 x 3 | 10 x 3 | 10 x 3 | 10 x 3 | 10 x 3 |
| CF(Correction Factor) | kg | 0 | 0 | 0 | 1 | 1 | 2 | 2 |
| Max. Connectable No. of Indoor Units | | 32 | 32 | 32 | 34 | 36 | 38 | 40 |
| Net Weight | kg(lbs) | 300(661.4) x 3 | 300(661.4) x 3 | 300(661.4) x 3 | 300(661.4) x 3 | 300(661.4) x 3 | 300(661.4) x 3 | 300(661.4) x 3 |
| Dimensions (W x H x D) | mm(inch) | (1280 x 1555 x 730) x 3 (50.4 x 61.2 x 28.7) x 3 | (1280 x 1555 x 730) x 3 (50.4 x 61.2 x 28.7) x 3 | (1280 x 1555 x 730) x 3 (50.4 x 61.2 x 28.7) x 3 | (1280 x 1555 x 730) x 3 (50.4 x 61.2 x 28.7) x 3 | (1280 x 1555 x 730) x 3 (50.4 x 61.2 x 28.7) x 3 | (1280 x 1555 x 730) x 3 (50.4 x 61.2 x 28.7) x 3 | (1280 x 1555 x 730) x 3 (50.4 x 61.2 x 28.7) x 3 |
| Pipe Connections | Liquid Pipes(mm(inch)) | Ø22.2(7/8) | Ø22.2(7/8) | Ø22.2(7/8) | Ø22.2(7/8) | Ø22.2(7/8) | Ø22.2(7/8) | Ø22.2(7/8) |
| | Gas Pipes(mm(inch)) | Ø44.5(1 3/4) | Ø44.5(1 3/4) | Ø44.5(1 3/4) | Ø44.5(1 3/4) | Ø44.5(1 3/4) | Ø44.5(1 3/4) | Ø44.5(1 3/4) |

■ Heat Pump

| Unit | | 1 Outdoor Unit(Half size) | | 1 Outdoor Unit | | | |
|--------------------------------------|------------------------|--|--|---|---|---|---|
| System(HP) | | 5 | 6 | 8 | 10 | 12 | 14 |
| Model | | LRUN509T0 | LRUN609T0 | LRUN809T0 | LRUN1009T0 | LRUN1209T0 | LRUN1409T0 |
| Product Charge | kg | 5 | 5 | 10 | 10 | 10 | 10 |
| CF(Correction Factor) | kg | 0 | 0 | -1 | -1 | -1 | -1 |
| Max. Connectable No. of Indoor Units | | 6 | 8 | 13 | 16 | 16 | 16 |
| Net Weight | kg(lbs) | 150(330.7) | 150(330.7) | 300(661.4) | 300(661.4) | 300(661.4) | 300(661.4) |
| Dimensions (W x H x D) | mm(inch) | 806 x 1555 x 730 (31.7 x 61.2 x 28.7) | 806 x 1555 x 730 (31.7 x 61.2 x 28.7) | 1280 x 1555 x 730 (50.4 x 61.2 x 28.7) | 1280 x 1555 x 730 (50.4 x 61.2 x 28.7) | 1280 x 1555 x 730 (50.4 x 61.2 x 28.7) | 1280 x 1555 x 730 (50.4 x 61.2 x 28.7) |
| Pipe Connections | Liquid Pipes(mm(inch)) | Ø9.52(3/8) | Ø9.52(3/8) | Ø12.7(1/2) | Ø12.7(1/2) | Ø12.7(1/2) | Ø12.7(1/2) |
| | Gas Pipes(mm(inch)) | Ø19.05(3/4) | Ø22.2(7/8) | Ø28.58(1 1/8) | Ø28.58(1 1/8) | Ø28.58(1 1/8) | Ø28.58(1 1/8) |

| Unit | | 2 Outdoor Units | | | | | |
|--------------------------------------|------------------------|---|---|---|---|---|---|
| System(HP) | | 16 | 18 | 20 | 22 | 24 | 26 |
| Model | | LRUN1609TS0 | LRUN1809TS0 | LRUN2009TS0 | LRUN2209TS0 | LRUN2409TS0 | LRUN2609TS0 |
| | | LRUN809TS0 | LRUN1009TS0 | LRUN1009TS0 | LRUN1209TS0 | LRUN1209TS0 | LRUN1409TS0 |
| | | LRUH809TS0 | LRUH809TS0 | LRUH1009TS0 | LRUH1009TS0 | LRUH1209TS0 | LRUH1209TS0 |
| Product Charge | kg | 10 x 2 | 10 x 2 | 10 x 2 | 10 x 2 | 10 x 2 | 10 x 2 |
| CF(Correction Factor) | kg | -2 | -2 | -2 | -2 | -2 | -1 |
| Max. Connectable No. of Indoor Units | | 20 | 20 | 20 | 22 | 24 | 26 |
| Net Weight | kg(lbs) | 300(661.4) x 2 | 300(661.4) x 2 | 300(661.4) x 2 | 300(661.4) x 2 | 300(661.4) x 2 | 300(661.4) x 2 |
| Dimensions (W x H x D) | mm(inch) | (1280 x 1555 x 730) x 2 (50.4 x 61.2 x 28.7) x 2 | (1280 x 1555 x 730) x 2 (50.4 x 61.2 x 28.7) x 2 | (1280 x 1555 x 730) x 2 (50.4 x 61.2 x 28.7) x 2 | (1280 x 1555 x 730) x 2 (50.4 x 61.2 x 28.7) x 2 | (1280 x 1555 x 730) x 2 (50.4 x 61.2 x 28.7) x 2 | (1280 x 1555 x 730) x 2 (50.4 x 61.2 x 28.7) x 2 |
| Pipe Connections | Liquid Pipes(mm(inch)) | Ø19.05(3/4) | Ø19.05(3/4) | Ø19.05(3/4) | Ø19.05(3/4) | Ø19.05(3/4) | Ø19.05(3/4) |
| | Gas Pipes(mm(inch)) | Ø38.1(1 1/2) | Ø38.1(1 1/2) | Ø38.1(1 1/2) | Ø38.1(1 1/2) | Ø38.1(1 1/2) | Ø38.1(1 1/2) |

| Unit | | 3 Outdoor Units | | | | | | |
|--------------------------------------|------------------------|---|---|---|---|---|---|---|
| System(HP) | | 28 | 30 | 32 | 34 | 36 | 38 | 40 |
| Model | | LRUN2809TR0 | LRUN3009TR0 | LRUN3209TR0 | LRUN3409TR0 | LRUN3609TR0 | LRUN3809TR0 | LRUN4009TR0 |
| | | LRUN809TR0 | LRUN1009TR0 | LRUN1209TR0 | LRUN1409TR0 | LRUN1209TR0 | LRUN1409TR0 | LRUN1609TR0 |
| | | LRUH1009TR0 | LRUH1009TR0 | LRUH1009TR0 | LRUH1009TR0 | LRUH1209TR0 | LRUH1209TR0 | LRUH1209TR0 |
| | | LRUH1009TR0 | LRUH1009TR0 | LRUH1009TR0 | LRUH1009TR0 | LRUH1209TR0 | LRUH1209TR0 | LRUH1209TR0 |
| Product Charge | kg | 10 x 3 | 10 x 3 | 10 x 3 | 10 x 3 | 10 x 3 | 10 x 3 | 10 x 3 |
| CF(Correction Factor) | kg | 0 | 0 | 0 | 1 | 1 | 2 | 2 |
| Max. Connectable No. of Indoor Units | | 32 | 32 | 32 | 34 | 36 | 38 | 40 |
| Net Weight | kg(lbs) | 300(661.4) x 3 | 300(661.4) x 3 | 300(661.4) x 3 | 300(661.4) x 3 | 300(661.4) x 3 | 300(661.4) x 3 | 300(661.4) x 3 |
| Dimensions (W x H x D) | mm(inch) | (1280 x 1555 x 730) x 3 (50.4 x 61.2 x 28.7) x 3 | (1280 x 1555 x 730) x 3 (50.4 x 61.2 x 28.7) x 3 | (1280 x 1555 x 730) x 3 (50.4 x 61.2 x 28.7) x 3 | (1280 x 1555 x 730) x 3 (50.4 x 61.2 x 28.7) x 3 | (1280 x 1555 x 730) x 3 (50.4 x 61.2 x 28.7) x 3 | (1280 x 1555 x 730) x 3 (50.4 x 61.2 x 28.7) x 3 | (1280 x 1555 x 730) x 3 (50.4 x 61.2 x 28.7) x 3 |
| Pipe Connections | Liquid Pipes(mm(inch)) | Ø22.2(7/8) | Ø22.2(7/8) | Ø22.2(7/8) | Ø22.2(7/8) | Ø22.2(7/8) | Ø22.2(7/8) | Ø22.2(7/8) |
| | Gas Pipes(mm(inch)) | Ø44.5(1 3/4) | Ø44.5(1 3/4) | Ø44.5(1 3/4) | Ø44.5(1 3/4) | Ø44.5(1 3/4) | Ø44.5(1 3/4) | Ø44.5(1 3/4) |

Power Supply: Outdoor Unit (3Ø, 220V, 60Hz)

■ Cooling Only

| Unit | | 1 Outdoor Unit | | |
|--------------------------------------|------------------------|---|---|---|
| System(HP) | | 8 | 10 | 12 |
| Model | | LRUV80BT0 | LRUV100BT0 | LRUV120BT0 |
| Product Charge | kg | 10 | 10 | 10 |
| CF(Correction Factor) | kg | -1 | -1 | -1 |
| Max. Connectable No. of Indoor Units | | 13 | 16 | 16 |
| Net Weight | kg(lbs) | 300(661.4) | 300(661.4) | 300(661.4) |
| Dimensions (W x H x D) | mm(inch) | 1280 x 1555 x 730 (50.4 x 61.2 x 28.7) | 1280 x 1555 x 730 (50.4 x 61.2 x 28.7) | 1280 x 1555 x 730 (50.4 x 61.2 x 28.7) |
| Pipe Connections | Liquid Pipes(mm(inch)) | Ø12.7(1/2) | Ø12.7(1/2) | Ø12.7(1/2) |
| | Gas Pipes(mm(inch)) | Ø28.58(1 ¹ / ₈) | Ø28.58(1 ¹ / ₈) | Ø28.58(1 ¹ / ₈) |

■ Heat Pump

| Unit | | 1 Outdoor Unit | | |
|--------------------------------------|------------------------|---|---|---|
| System(HP) | | 8 | 10 | 12 |
| Model | | LRUN80BT0 | LRUN100BT0 | LRUN120BT0 |
| Product Charge | kg | 10 | 10 | 10 |
| CF(Correction Factor) | kg | -1 | -1 | -1 |
| Max. Connectable No. of Indoor Units | | 13 | 16 | 16 |
| Net Weight | kg(lbs) | 300(661.4) | 300(661.4) | 300(661.4) |
| Dimensions (W x H x D) | mm(inch) | 1280 x 1555 x 730 (50.4 x 61.2 x 28.7) | 1280 x 1555 x 730 (50.4 x 61.2 x 28.7) | 1280 x 1555 x 730 (50.4 x 61.2 x 28.7) |
| Pipe Connections | Liquid Pipes(mm(inch)) | Ø12.7(1/2) | Ø12.7(1/2) | Ø12.7(1/2) |
| | Gas Pipes(mm(inch)) | Ø28.58(1 ¹ / ₈) | Ø28.58(1 ¹ / ₈) | Ø28.58(1 ¹ / ₈) |

Indoor Units

Ceiling Mounted Cassette Type (1Way)

| | |
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1. Specifications

1.1 50Hz

1.1.1 Cooling Only

Cooling Only (50Hz)

| Model | | | Unit | LRNV076TCA(C)0 | LRNV096TCA(C)0 | LRNV126TCA(C)0 |
|---|----------------------|------------|--|--|--|----------------|
| Cooling Capacity | | | W | 2,100 | 2,600 | 3,500 |
| | | | kcal/h | 1,806 | 2,235 | 3,009 |
| | | | Btu/h | 7,165 | 8,871 | 11,942 |
| Heating Capacity | | | W | - | - | - |
| | | | kcal/h | - | - | - |
| | | | Btu/h | - | - | - |
| Casing | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate | |
| Dimensions (W*H*D) | Body | mm | 860*390*180 | 860*390*180 | 860*390*180 | |
| | | inch | 33.8*15.3*7.0 | 33.8*15.3*7.0 | 33.8*15.3*7.0 | |
| | Front Panel | mm | 1050*480*30 | 1050*480*30 | 1050*480*30 | |
| | | inch | 41.3*18.9*1.2 | 41.3*18.9*1.2 | 41.3*18.9*1.2 | |
| Coil | Rows x Columns x FPI | | 2*12*18 | 2*12*21 | 2*12*21 | |
| | Face Area | m² | 0.17 | 0.17 | 0.17 | |
| Fan | Type | | Cross Flow Fan | Cross Flow Fan | Cross Flow Fan | |
| | Motor Output | | W | 14 | 14 | |
| | Running Current | | A | 0.22 | 0.22 | |
| | Air Flow Rate(H/M/L) | cmm | 6/5/4 | 7/6/5 | 10/9/8 | |
| | | cfm | 212/177/141 | 247/212/177 | 353/318/283 | |
| | Drive | | Direct | Direct | Direct | |
| | Speed control | | Phase Control | Phase Control | Phase Control | |
| Temperature Control | | | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystrene | Foamed polystrene | Foamed polystrene | |
| Safety Device | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | |
| Pipe Connections | Liquid Side | mm(inch) | Ø6.35(1/4) | Ø6.35(1/4) | Ø6.35(1/4) | |
| | Gas Side | mm(inch) | Ø12.7(1/2) | Ø12.7(1/2) | Ø12.7(1/2) | |
| | Drain Pipe(OD) | mm | 32.0 | 32.0 | 32.0 | |
| Net Weight | | kg(lbs) | 17(37.5) | 17(37.5) | 17(37.5) | |
| Noise Level(Sound Press, 1.5m, H/M/L) | | dBA±3 | 35/32/29 | 37/34/31 | 39/36/35 | |
| Power Supply | | Ø / V / Hz | 1 / 220 ~ 240V / 50Hz | 1 / 220 ~ 240V / 50Hz | 1 / 220 ~ 240V / 50Hz | |
| Refrigerant Control | | | LEV | LEV | LEV | |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C | |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | |
| Panel Color | | | White | White | White | |
| Stuffing Quantity | Without S/parts | 20/40ft | 263/539 | 263/539 | 263/539 | |

Notes:-

1. Capacities are based on the following conditions:

- Cooling
 - Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.: Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860

Btu/h = kW x 3412

cfm = m³/min x 35.3

2.1.2 Heat Pump

Heat Pump (50Hz)

| Model | | | Unit | LRNN076TCA(C)0 | LRNN096TCA(C)0 | LRNN126TCA(C)0 |
|---|----------------------|-----------------|--|--|--|------------------------|
| Cooling Capacity | | | W | 2,100 | 2,600 | 3,500 |
| | | | kcal/h | 1,806 | 2,235 | 3,009 |
| | | | Btu/h | 7,165 | 8,871 | 11,942 |
| Heating Capacity | | | W | 2,363 | 2,925 | 3,938 |
| | | | kcal/h | 2,031 | 2,515 | 3,385 |
| | | | Btu/h | 8,061 | 9,980 | 13,435 |
| Casing | | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions (W*H*D) | Body | mm | 860*390*180 | 860*390*180 | 860*390*180 | |
| | | inch | 33.8*15.3*7.0 | 33.8*15.3*7.0 | 33.8*15.3*7.0 | |
| | Front Panel | mm | 1050*480*30 | 1050*480*30 | 1050*480*30 | |
| | | inch | 41.3*18.9*1.2 | 41.3*18.9*1.2 | 41.3*18.9*1.2 | |
| Coil | Rows x Columns x FPI | | 2*12*18 | 2*12*21 | 2*12*21 | |
| | Face Area | m ² | 0.17 | 0.17 | 0.17 | |
| Fan | Type | | Cross Flow Fan | Cross Flow Fan | Cross Flow Fan | |
| | Motor Output | | W | 14 | 14 | |
| | Running Current | | A | 0.22 | 0.22 | |
| | Air Flow Rate(H/M/L) | cmm | 6/5/4 | 7/6/5 | 10/9/8 | |
| | | cfm | 212/177/141 | 247/212/177 | 353/318/283 | |
| | Drive | | Direct | Direct | Direct | |
| | Speed control | | Phase Control | Phase Control | Phase Control | |
| Temperature Control | | | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystyrene | Foamed polystyrene | Foamed polystyrene | |
| Safety Device | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | |
| Pipe Connections | Liquid Side | mm(inch) | Ø6.35(1/4) | Ø6.35(1/4) | Ø6.35(1/4) | |
| | Gas Side | mm(inch) | Ø12.7(1/2) | Ø12.7(1/2) | Ø12.7(1/2) | |
| | Drain Pipe(OD) | mm | 32.0 | 32.0 | 32.0 | |
| Net Weight | | kg(lbs) | 17(37.5) | 17(37.5) | 17(37.5) | |
| Noise Level(Sound Press, 1.5m, H/M/L) | | dBA±3 | 35/32/29 | 37/34/31 | 39/36/35 | |
| Power Supply | | Ø / V / Hz | 1 / 220 ~ 240 / 50Hz | 1 / 220 ~ 240 / 50Hz | 1 / 220 ~ 240 / 50Hz | |
| Refrigerant Control | | | LEV | LEV | LEV | |
| Power cable | | mm ² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C | |
| Transmission cable | | mm ² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | |
| Panel Color | | | White | White | White | |
| Stuffing Quantity | Without S/parts | 20/40ft | 263/539 | 263/539 | 263/539 | |

Notes:-

1. Capacities are based on the following conditions:

- Cooling
 - Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Heating
 - Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 - Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.:Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m³/min x 35.3

1.2 60Hz

1.2.1 Cooling Only

Cooling Only(60Hz)

| Model | | | Unit | LRNV072TCA(C)0 | LRNV092TCA(C)0 | LRNV122TCA(C)0 |
|---|----------------------|-----------------|--------|--|--|--|
| Cooling Capacity | | | W | 2,100 | 2,600 | 3,500 |
| | | | kcal/h | 1,806 | 2,235 | 3,009 |
| | | | Btu/h | 7,165 | 8,871 | 11,942 |
| Heating Capacity | | | W | - | - | - |
| | | | kcal/h | - | - | - |
| | | | Btu/h | - | - | - |
| Casing | | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions (W*H*D) | Body | mm | | 860*390*180 | 860*390*180 | 860*390*180 |
| | | inch | | 33.8*15.3*7.0 | 33.8*15.3*7.0 | 33.8*15.3*7.0 |
| | Front Panel | mm | | 1050*480*30 | 1050*480*30 | 1050*480*30 |
| | | inch | | 41.3*18.9*1.2 | 41.3*18.9*1.2 | 41.3*18.9*1.2 |
| Coil | Rows x Columns x FPI | | | 2*12*18 | 2*12*21 | 2*12*21 |
| | Face Area | m ² | | 0.17 | 0.17 | 0.17 |
| Fan | Type | | | Cross Flow Fan | Cross Flow Fan | Cross Flow Fan |
| | Motor Output | W | | 14 | 14 | 14 |
| | Running Current | A | | 0.22 | 0.22 | 0.22 |
| | Air Flow Rate(H/M/L) | cmm | | 6/5/4 | 7/6/5 | 10/9/8 |
| | | cfm | | 212/177/141 | 247/212/177 | 353/318/283 |
| | Drive | | | Direct | Direct | Direct |
| | Speed control | | | Phase Control | Phase Control | Phase Control |
| Temperature Control | | | | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling |
| Sound Absorbing Thermal Insulation Material | | | | Foamed polystyrene | Foamed polystyrene | Foamed polystyrene |
| Safety Device | | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor |
| Pipe Connections | Liquid Side | mm(inch) | | Ø6.35(1/4) | Ø6.35(1/4) | Ø6.35(1/4) |
| | Gas Side | mm(inch) | | Ø12.7(1/2) | Ø12.7(1/2) | Ø12.7(1/2) |
| | Drain Pipe(OD) | mm | | 32.0 | 32.0 | 32.0 |
| Net Weight | | kg(lbs) | | 17(37.5) | 17(37.5) | 17(37.5) |
| Noise Level(Sound Press, 1.5m, H/M/L) | | dBA±3 | | 35/32/29 | 37/34/31 | 39/36/35 |
| Power Supply | | Ø / V / Hz | | 1 / 220 / 60Hz | 1 / 220 / 60Hz | 1 / 220 / 60Hz |
| Refrigerant Control | | | | LEV | LEV | LEV |
| Power cable | | mm ² | | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C |
| Transmission cable | | mm ² | | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C |
| Panel Color | | | | White | White | White |
| Stuffing Quantity | Without S/parts | 20/40ft | | 263/539 | 263/539 | 263/539 |

Notes:-

- Capacities are based on the following conditions:
 - Cooling
 - Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Capacities are net capacities
- Due to our policy of innovation some specifications may be changed without notification
- L.E.V.:Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

2.2.2 Heat Pump

Heat Pump (60Hz)

| Model | | | Unit | LRNN072TCA(C)0 | LRNN092TCA(C)0 | LRNN122TCA(C)0 |
|---|----------------------|------------|--|--|--|------------------------|
| Cooling Capacity | | | W | 2,100 | 2,600 | 3,500 |
| | | | kcal/h | 1,806 | 2,235 | 3,009 |
| | | | Btu/h | 7,165 | 8,871 | 11,942 |
| Heating Capacity | | | W | 2,363 | 2,925 | 3,938 |
| | | | kcal/h | 2,031 | 2,515 | 3,385 |
| | | | Btu/h | 8,061 | 9,980 | 13,435 |
| Casing | | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions (W*H*D) | Body | mm | 860*390*180 | 860*390*180 | 860*390*180 | |
| | | inch | 33.8*15.3*7.0 | 33.8*15.3*7.0 | 33.8*15.3*7.0 | |
| | Front Panel | mm | 1050*480*30 | 1050*480*30 | 1050*480*30 | |
| | | inch | 41.3*18.9*1.2 | 41.3*18.9*1.2 | 41.3*18.9*1.2 | |
| Coil | Rows x Columns x FPI | | 2*12*18 | 2*12*21 | 2*12*21 | |
| | Face Area | m² | 0.17 | 0.17 | 0.17 | |
| Fan | Type | | Cross Flow Fan | Cross Flow Fan | Cross Flow Fan | |
| | Motor Output | | W | 14 | 14 | |
| | Running Current | | A | 0.22 | 0.22 | |
| | Air Flow Rate(H/M/L) | cmm | 6/5/4 | 7/6/5 | 10/9/8 | |
| | | cfm | 212/177/141 | 247/212/177 | 353/318/283 | |
| | Drive | | Direct | Direct | Direct | |
| | Speed control | | Phase Control | Phase Control | Phase Control | |
| Temperature Control | | | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystyrene | Foamed polystyrene | Foamed polystyrene | |
| Safety Device | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | |
| Pipe Connections | Liquid Side | mm(inch) | Ø6.35(1/4) | Ø6.35(1/4) | Ø6.35(1/4) | |
| | Gas Side | mm(inch) | Ø12.7(1/2) | Ø12.7(1/2) | Ø12.7(1/2) | |
| | Drain Pipe(OD)) | mm | 32.0 | 32.0 | 32.0 | |
| Net Weight | | kg(lbs) | 17(37.5) | 17(37.5) | 17(37.5) | |
| Noise Level(Sound Press, 1.5m, H/M/L) | | dBA±3 | 35/32/29 | 37/34/31 | 39/36/35 | |
| Power Supply | | Ø / V / Hz | 1 / 220 / 60Hz | 1 / 220 / 60Hz | 1 / 220 / 60Hz | |
| Refrigerant Control | | | LEV | LEV | LEV | |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C | |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | |
| Panel Color | | | White | White | White | |
| Stuffing Quantity | Without S/parts | 20/40ft | 263/539 | 263/539 | 263/539 | |

Notes:-

1. Capacities are based on the following conditions:

- Cooling
 - Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Heating
 - Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 - Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.:Linear Expansion Valve

Conversion Formula

kcal/h = kW x 860
Btu/h = kW x 3412
cfm = m³/min x 35.3

2. Functions

Indoor Unit

Operation ON/OFF by Remote controller

Sensing the Room Temperature

- Room temperature sensor. (Thermistor)

Room temperature control

- Maintains the room temperature in accordance with the Setting temperature

Starting Current Control

- Indoor fan is delayed for 5 seconds at the starting.

Time Delay Safety Control

- Restarting is inhibited for approx. 3 minutes.

Indoor Fan Speed Control

- Jet, High, Med, Low

Soft Dry Operation Mode

- Intermittent operation of fan at low speed.

Airflow Direction Control

- The louver can be set at swing up and down automatically.

Auto Restart

- Although the air-conditioner is turned off by a power failure, it is restarted automatically previous operation mode after power supply.

Deice (defrost) control (Heating)

- Both the indoor and outdoor fan stops during defrosting.
- Hot start after defrost ends.

Hot-start Control (Heating)

- The indoor fan does not rotate until the evaporator piping temperature will be reached at 25°C.

Compact and light design

- To install a unit is very convenient because of smaller size than textile.

Low noise

- The most advanced low-noise design.
- The adoption of turbo fan and round type heat exchanger give the quietest operation.

Long life filter

- Long life wrinkle(type) and washable and anti-bacteria filter is adopted.

High head Drain pump

- Built-in drain pump automatically drains water.
- A standard drain-head height of up to 700mm is possible.

High-Ceiling corresponding Function

- According to the height of ceiling, the RPM of indoor fan motor is selected to increase air reaching distance.

Central Control(Optional)

- It is operating individually or totally by central control function.

3. Operation Details

(1) The function of main control

■ Time Delay Safety Control

- 5sec... Vertical louvers are delayed for 5 secs to be opened to prevent the frictional sound between louver and air flow.
- 30sec... The 4-way valve is ceased for 30sec. to prevent abnormal noise when the Heating operation is OFF or switched to the other operation mode while compress is off.
While compressor is running, it takes 3~5 seconds to switch.

■ Auto Swing Control

- This function is to swing the louver up and down automatically.

■ Air-Filter Checking Control

- 'Filter' sign will appear on the remote controller display and main body display when an air-filter is polluted. Then clean the air-filter referring to Owners Manual.

■ Soft-Dry Operation

- The indoor fan speed is automatically set to the low, and fan speed control is not available because of already being set to the best speed for Dry Operation by microcontroller control.

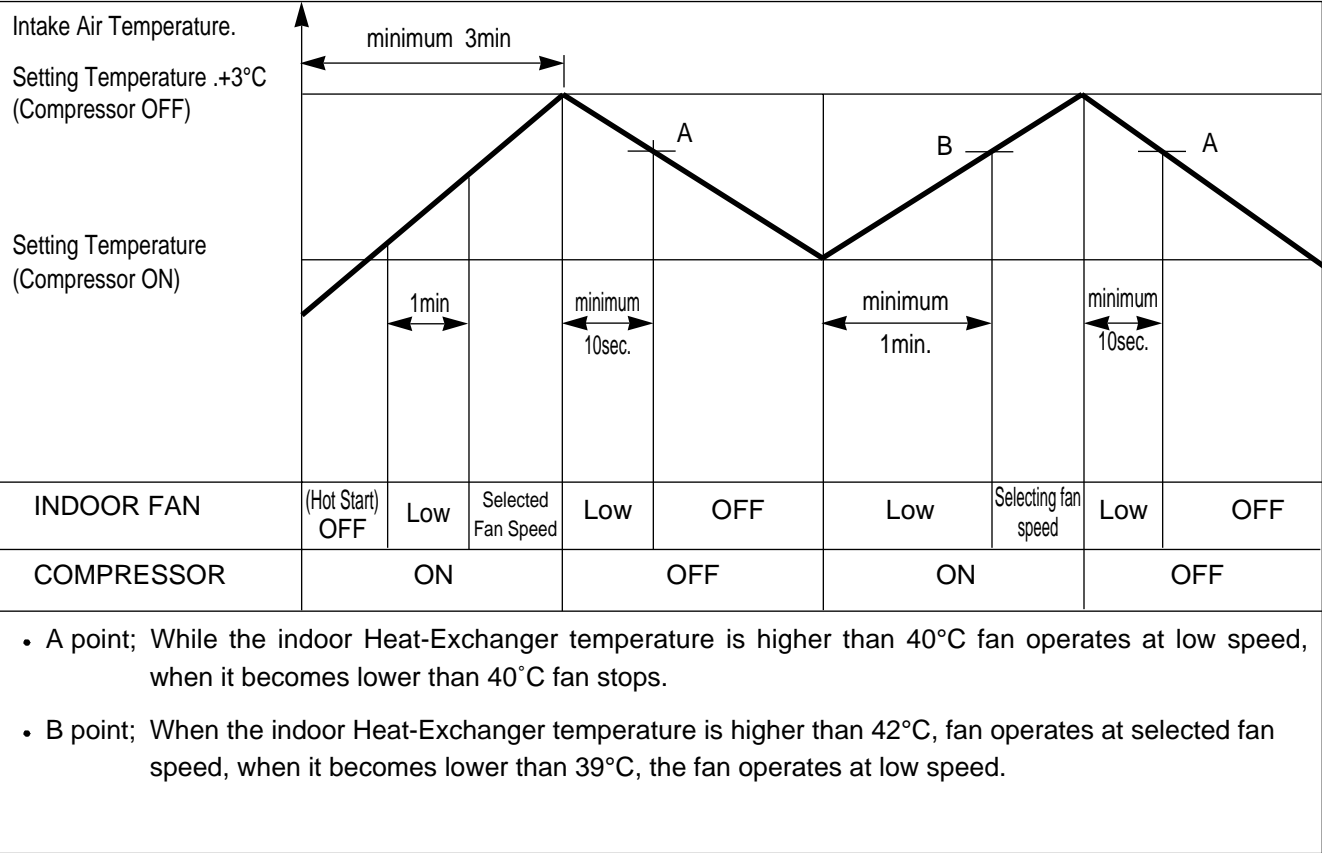
■ Cooling Mode Operation

- When selecting the Cooling(※) Mode Operation, the unit will operate according to the setting by the remote controller and the operation diagram is as follows.

| | | | | | |
|--|------------|--------------------|-----|--------------------|--------------------|
| Intake Air Temperature SET TEMPERATURE +0.5°C (COMP. ON) SET TEMPERATURE SET TEMPERATURE -0.5°C (COMP. OFF) | | | | | |
| | INDOOR FAN | Selected fan speed | Low | Selected fan speed | Low |
| | COMPRESSOR | ON | OFF | ON | OFF |
| | | | | | Selected fan speed |
| | | | | | ON |

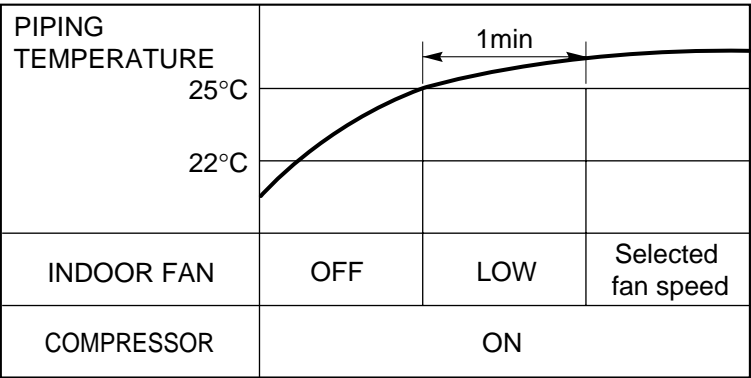
■ Heating Mode Operation

The unit will operate according to the setting by the remote controller and the operation diagram is shown as follows.



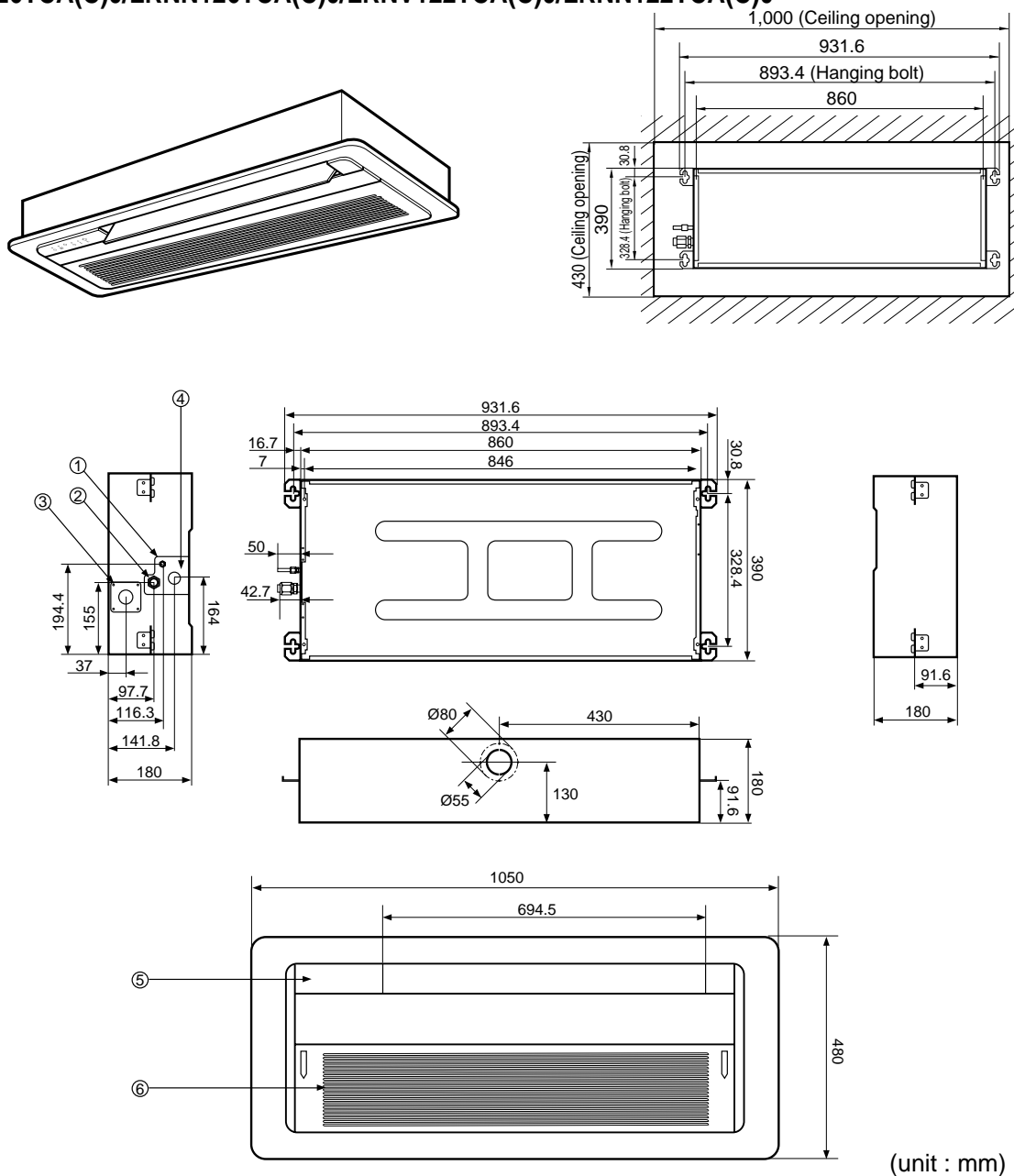
■ Hot-Start Control

- The indoor fan sdoes not rotate until the evaporator piping temperature reaches to 25°C.
- If the evaporator piping temperature drops below 22°C, indoor fan stops again.
- The operation diagram is as follows.



4. Dimensional Drawings

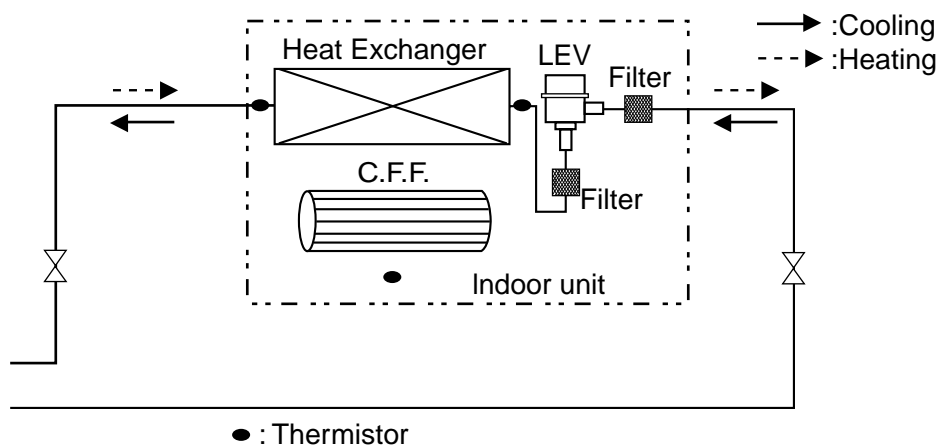
LRNV076TCA(C)0/LRNN076TCA(C)0/LRNV072TCA(C)0/LRNN072TCA(C)0
 LRNV096TCA(C)0/LRNN096TCA(C)0/LRNV092TCA(C)0/LRNN092TCA(C)0
 LRNV126TCA(C)0/LRNN126TCA(C)0/LRNV122TCA(C)0/LRNN122TCA(C)0



(unit : mm)

| Number | Name | Description |
|--------|-------------------------|-------------|
| 1 | Liquid pipe connection | ø6.35 flare |
| 2 | Gas pipe connection | ø12.7 flare |
| 3 | Drain pipe connection | |
| 4 | Power supply connection | |
| 5 | Air discharge grill | |
| 6 | Air suction grill | |

5. Piping Diagrams

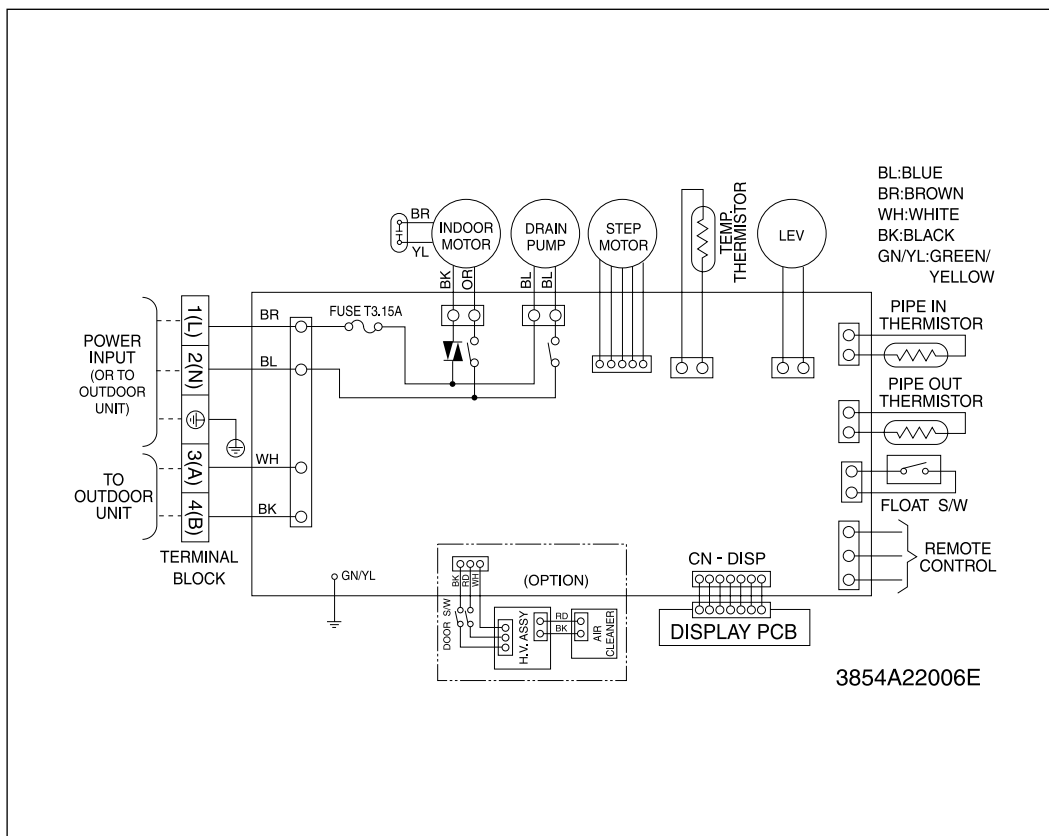


Refrigerant pipe connection port diameter

[unit: mm(inch)]

| Model | Gas | Liquid |
|---|-----------|-----------|
| LRNV076TCA(C)0/LRNN076TCA(C)0/LRNV072TCA(C)0/LRNN072TCA(C)0 | 12.7(1/2) | 6.35(1/4) |
| LRNV096TCA(C)0/LRNN096TCA(C)0/LRNV092TCA(C)0/LRNN092TCA(C)0 | | |
| LRNV126TCA(C)0/LRNN126TCA(C)0/LRNV122TCA(C)0/LRNN122TCA(C)0 | | |

6. Wiring Diagrams



| CONNECTOR NUMBER | SPEC | COLOR | DESCRIPTION |
|------------------|-----------------------|--------|---|
| CN-POWER | AC POWER SUPPLY | WHITE | AC POWER LINE INPUT FOR INDOOR CONTROLLER |
| CN-MOTOR2 | AC FAN MOTOR OUTPUT | YELLOW | MOTOR OUTPUT OF PHASE CONTROL |
| CN-D/PUMP | DRAIN PUMP OUTPUT | WHITE | AC OUTPUT FOR DRAIN PUMP |
| CN-COMM | COMMUNICATION | WHITE | CONNECTION BETWEEN INDOOR AND OUTDOOR |
| CN-DISP1 | DISPLAY | BLUE | DISPLAY OF INDOOR STATUS |
| CN-LEV | LEV OUTPUT | WHITE | LEV CONTROL OUTPUT |
| CN-STEP/M1 | STEP MOTOR | WHITE | STEP MOTOR OUTPUT |
| CN-FLOAT | FLOAT SWITCH INPUT | BLUE | FLOAT SWITCH SENSING |
| CN-PIPE | PIPE SENSOR | WHITE | PIPE THERMISTOR |
| CN-PIPE/O | DISCHARGE PIPE SENSOR | RED | DISCHARGE PIPE THERMISTOR |
| CN-ROOM | ROOM SENSOR | YELLOW | ROOM THERMISTOR |
| CN-REMO | REMOTE CONTROLLER | WHITE | REMOTE CONTROL LINE |

Ceiling Mounted Cassette Type (4Way)

| | |
|--------------------------------------|-----------|
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| 4. Dimensional Drawings | 49 |
| 5. Piping Diagrams | 51 |
| 6. Wiring Diagrams | 52 |

1. Specifications

1.1 50Hz

1.1.1 Cooling Only

Cooling Only (50Hz)

| Model | | | Unit | LRNV126TEA(C)0 | LRNV186TEA(C)0 | LRNV216TDA(C)0 |
|---|----------------------|------------|--|--|--|------------------------|
| Cooling Capacity | | | W | 3,500 | 5,300 | 6,200 |
| | | | kcal/h | 3,009 | 4,557 | 5,331 |
| | | | Btu/h | 11,942 | 18,084 | 21,155 |
| Heating Capacity | | | W | - | - | - |
| | | | kcal/h | - | - | - |
| | | | Btu/h | - | - | - |
| Casing | | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions (W*H*D) | Body | mm | 570*570*269 | 570*570*269 | 840*840*290 | |
| | | inch | 22.4*22.4*10.5 | 22.4*22.4*10.5 | 33.0*33.0*11.4 | |
| | Front Panel | mm | 670*670*30 | 670*670*30 | 950*950*30 | |
| | | inch | 26.4*26.4*1.2 | 26.4*26.4*1.2 | 37.4*37.4*1.2 | |
| Coil | Rows x Columns x FPI | | 2*11*19 | 2*11*19 | 2*12*21 | |
| | Face Area | m² | 0.27 | 0.27 | 2*0.26 | |
| Fan | Type | | Turbo Fan | Turbo Fan | Turbo Fan | |
| | Motor Output | | W | 20 | 25 | 60 |
| | Running Current | | A | 0.69 | 0.69 | 0.80 |
| | Air Flow Rate(H/M/L) | cmm | 11/10/9 | 13/12/10 | 18/15.9/13.9 | |
| | | cfm | 389/353/318 | 459/424/353 | 636/562/491 | |
| | Drive | | Direct | Direct | Direct | |
| | Speed control | | Phase Control | Phase Control | Phase Control | |
| Temperature Control | | | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystrene | Foamed polystrene | Foamed polystrene | |
| Safety Device | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | |
| Pipe Connections | Liquid Side | mm(inch) | Ø6.35(1/4) | Ø9.52(3/8) | Ø9.52(3/8) | |
| | Gas Side | mm(inch) | Ø12.7(1/2) | Ø15.88(5/8) | Ø15.88(5/8) | |
| | Drain Pipe(OD) | mm | 32.0 | 32.0 | 32.0 | |
| Net Weight | | kg(lbs) | 19(41.9) | 19(41.9) | 32(70.5) | |
| Noise Level(Sound Press, 1.5m, H/M/L) | | dBA±3 | 38/35/32 | 41/39/37 | 40/37/35 | |
| Power Supply | | Ø / V / Hz | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 | |
| Refrigerant Control | | | LEV | LEV | LEV | |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C | |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | |
| Panel Color | | | White | White | White | |
| Stuffing Quantity | Without S/parts | 20/40ft | 189/378 | 189/378 | 72/144 | |

Notes:-

1. Capacities are based on the following conditions:

- Cooling • Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
- Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
- Interconnecting Piping Length 7.5m
- Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

Conversion Formula

Kcal/h= kW x 860

Btu/h = kW x 3412

cfm = m³/min x 35.3

Cooling Only (50Hz)

| Model | | | Unit | LRNV246TDA(C)0 | LRNV286TDA(C)0 | LRNV366TDA(C)0 |
|---|----------------------|------------|--|--|--|------------------------|
| Cooling Capacity | | | W | 7,000 | 8,200 | 10,600 |
| | | | kcal/h | 6,019 | 7,052 | 9,116 |
| | | | Btu/h | 23,885 | 27,995 | 36,168 |
| Heating Capacity | | | W | - | - | - |
| | | | kcal/h | - | - | - |
| | | | Btu/h | - | - | - |
| Casing | | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions (W*H*D) | Body | mm | 840*840*290 | 840*840*290 | 840*840*290 | |
| | | inch | 33.0*33.0*11.4 | 33.0*33.0*11.4 | 33.0*33.0*11.4 | |
| | Front Panel | mm | 950*950*30 | 950*950*30 | 950*950*30 | |
| | | inch | 37.4*37.4*1.2 | 37.4*37.4*1.2 | 37.4*37.4*1.2 | |
| Coil | Rows x Columns x FPI | | 2*12*21 | 2*12*21 | 2*12*21 | |
| | Face Area | m² | 2*0.26 | 2*0.26 | 2*0.26 | |
| Fan | Type | | Turbo Fan | Turbo Fan | Turbo Fan | |
| | Motor Output | W | 60 | 60 | 60 | |
| | Running Current | A | 0.80 | 0.80 | 1.10 | |
| | Air Flow Rate(H/M/L) | cmm | 19/17/15 | 23/21/18 | 26/24/22 | |
| | | cfm | 671/601/530 | 813/742/636 | 919/848/777 | |
| | Drive | | Direct | Direct | Direct | |
| | Speed control | | Phase Control | Phase Control | Phase Control | |
| Temperature Control | | | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystrene | Foamed polystrene | Foamed polystrene | |
| Safety Device | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | |
| Pipe Connections | Liquid Side | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) | Ø9.52(3/8) | |
| | Gas Side | mm(inch) | Ø15.88(5/8) | Ø15.88(5/8) | Ø19.05(3/4) | |
| | Drain Pipe(OD) | mm | 32.0 | 32.0 | 32.0 | |
| Net Weight | | kg(lbs) | 32(70.5) | 32(70.5) | 32(70.5) | |
| Noise Level(Sound Press, 1.5m, H/M/L) | | dBA±3 | 41/38/36 | 42/40/38 | 43/41/39 | |
| Power Supply | | Ø / V / Hz | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 | |
| Refrigerant Control | | | LEV | LEV | LEV | |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C | |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | |
| Panel Color | | | White | White | White | |
| Stuffing Quantity | Without S/parts | 20/40ft | 72/144 | 72/144 | 72/144 | |

Notes:-

1. Capacities are based on the following conditions:

- Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
- Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
- Interconnecting Piping Length 7.5m
- Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.: Linear Expansion Valve

Conversion Formula

$$\text{Kcal/h} = \text{kW} \times 860$$
$$\text{Btu/h} = \text{kW} \times 3412$$
$$\text{cfm} = \text{m}^3/\text{min} \times 35.3$$
$$\text{cfm} = \text{m}^3/\text{min} \times 35.3$$

Specifications

Cooling Only (50Hz)

| Model | | | Unit | LRNV386TDA(C)0 | LRNV426TDA(C)0 | LRNV486TDA(C)0 |
|---|----------------------|-----------------|--|--|--|------------------------|
| Cooling Capacity | | | W | 11,100 | 12,300 | 14,100 |
| | | | kcal/h | 9,544 | 10,578 | 12,126 |
| | | | Btu/h | 37,875 | 41,992 | 48,137 |
| Heating Capacity | | | W | - | - | - |
| | | | kcal/h | - | - | - |
| | | | Btu/h | - | - | - |
| Casing | | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions (W*H*D) | Body | mm | 840*840*290 | 840*840*290 | 840*840*290 | |
| | | inch | 33.0*33.0*11.4 | 33.0*33.0*11.4 | 33.0*33.0*11.4 | |
| | Front Panel | mm | 950*950*30 | 950*950*30 | 950*950*30 | |
| | | inch | 37.4*37.4*1.2 | 37.4*37.4*1.2 | 37.4*37.4*1.2 | |
| Coil | Rows x Columns x FPI | | 2*12*21 | 2*12*21 | 2*12*21 | |
| | Face Area | | m ² | 2*0.26 | 2*0.26 | 2*0.26 |
| Fan | Type | | Turbo Fan | Turbo Fan | Turbo Fan | |
| | Motor Output | | W | 60 | 60 | |
| | Running Current | | A | 1.10 | 1.10 | |
| | Air Flow Rate(H/M/L) | cmm | 28/26 /24 | 32.5/30/28.1 | 34.5/32.5/30 | |
| | | cfm | 989/919/848 | 1148/1060/993 | 1219/1148/1060 | |
| | Drive | | Direct | Direct | Direct | |
| | Speed control | | Phase Control | Phase Control | Phase Control | |
| Temperature Control | | | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystyrene | Foamed polystyrene | Foamed polystyrene | |
| Safety Device | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | |
| Pipe Connections | Liquid Side | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) | Ø9.52(3/8) | |
| | Gas Side | mm(inch) | Ø19.05(3/4) | Ø19.05(3/4) | Ø19.05(3/4) | |
| | Drain Pipe(OD) | mm | 32.0 | 32.0 | 32.0 | |
| Net Weight | | kg(lbs) | 32(70.5) | 32(70.5) | 32(70.5) | |
| Noise Level(Sound Press, 1.5m, H/M/L) | | dBA±3 | 43.5/41.5/39.5 | 44/42/40 | 45/43/41 | |
| Power Supply | | Ø / V / Hz | 1 / 220 ~ 240 / 50 | 1, 220 ~ 240, 50 | 1 / 220 ~ 240 / 50 | |
| Refrigerant Control | | | LEV | LEV | LEV | |
| Power cable | | mm ² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C | |
| Transmission cable | | mm ² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | |
| Panel Color | | | White | White | White | |
| Stuffing Quantity | Without S/parts | 20/40ft | 72/144 | 72/144 | 72/144 | |

Notes:-

1. Capacities are based on the following conditions:

- Cooling
 - Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.: Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m³/min x 35.3

2.1.2 Heat Pump

Heat Pump (50Hz)

| Model | | | Unit | LRNN126TEA(C)0 | LRNN186TEA(C)0 | LRNN216TDA(C)0 |
|---|----------------------|-----------------|--|--|--|------------------------|
| Cooling Capacity | | | W | 3,500 | 5,300 | 6,200 |
| | | | kcal/h | 3,009 | 4,557 | 5,331 |
| | | | Btu/h | 11,942 | 18,084 | 21,155 |
| Heating Capacity | | | W | 3,938 | 5,963 | 6,975 |
| | | | kcal/h | 3,385 | 5,127 | 5,997 |
| | | | Btu/h | 13,435 | 20,345 | 23,800 |
| Casing | | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions (W*H*D) | Body | mm | 570*570*269 | 570*570*269 | 840*840*290 | |
| | | inch | 22.4*22.4*10.5 | 22.4*22.4*10.5 | 33.0*33.0*11.4 | |
| | Front Panel | mm | 670*670*30 | 670*670*30 | 950*950*30 | |
| | | inch | 26.4*26.4*1.2 | 26.4*26.4*1.2 | 37.4*37.4*1.2 | |
| Coil | Rows x Columns x FPI | | 2*11*19 | 2*11*19 | 2*12*21 | |
| | Face Area | m ² | 0.27 | 0.27 | 2*0.26 | |
| Fan | Type | | Turbo Fan | Turbo Fan | Turbo Fan | |
| | Motor Output | | W | 25 | 60 | |
| | Running Current | | A | 0.69 | 0.80 | |
| | Air Flow Rate(H/M/L) | cmm | 11/10/9 | 13/12/10 | 18/15.9/13.9 | |
| | | cfm | 389/353/318 | 459/424/353 | 636/562/491 | |
| | Drive | | Direct | Direct | Direct | |
| | Speed control | | Phase Control | Phase Control | Phase Control | |
| Temperature Control | | | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystrene | Foamed polystrene | Foamed polystrene | |
| Safety Device | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | |
| Pipe Connections | Liquid Side | mm(inch) | Ø6.35(1/4) | Ø9.52(3/8) | Ø9.52(3/8) | |
| | Gas Side | mm(inch) | Ø12.7(1/2) | Ø15.88(5/8) | Ø15.88(5/8) | |
| | Drain Pipe(OD) | mm | 32.0 | 32.0 | 32.0 | |
| Net Weight | | kg(lbs) | 19(41.9) | 19(41.9) | 32(70.5) | |
| Noise Level(Sound Press, 1.5m, H/M/L) | | dBA±3 | 38/35/32 | 41/39/37 | 40/37/35 | |
| Power Supply | | Ø / V / Hz | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 | |
| Refrigerant Control | | | LEV | LEV | LEV | |
| Power cable | | mm ² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C | |
| Transmission cable | | mm ² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | |
| Panel Color | | | White | White | White | |
| Stuffing Quantity | Without S/parts | 20/40ft | 189/378 | 189/378 | 72/144 | |

Notes:-

- Capacities are based on the following conditions:
 - Cooling
 - Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
 - Heating
 - Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 - Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Capacities are net capacities
- Due to our policy of innovation some specifications may be changed without notification
- L.E.V.:Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

Specifications

Heat Pump (50Hz)

| Model | | | Unit | LRNN246TDA(C)0 | LRNN286TDA(C)0 | LRNN366TDA(C)0 |
|---|----------------------|------------|--------------------|--|--|--|
| Cooling Capacity | | | W | 7,000 | 8,200 | 10,600 |
| | | | kcal/h | 6,019 | 7,052 | 9,116 |
| | | | Btu/h | 23,885 | 27,995 | 36,168 |
| Heating Capacity | | | W | 7,875 | 9,225 | 11,925 |
| | | | kcal/h | 6,771 | 7,934 | 10,253 |
| | | | Btu/h | 26,870 | 31,494 | 40,689 |
| Casing | | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions (W*H*D) | Body | mm | 840*840*290 | 840*840*290 | 840*840*290 | |
| | | inch | 33.0*33.0*11.4 | 33.0*33.0*11.4 | 33.0*33.0*11.4 | |
| | Front Panel | mm | 950*950*30 | 950*950*30 | 950*950*30 | |
| | | inch | 37.4*37.4*1.2 | 37.4*37.4*1.2 | 37.4*37.4*1.2 | |
| Coil | Rows x Columns x FPI | | 2*12*21 | 2*12*21 | 2*12*21 | |
| | Face Area | | m² | 2*0.26 | 2*0.26 | 2*0.26 |
| Fan | Type | | | Turbo Fan | Turbo Fan | Turbo Fan |
| | Motor Output | | W | 60 | 60 | 60 |
| | Running Current | | A | 0.80 | 0.80 | 1.10 |
| | Air Flow Rate(H/M/L) | cmm | 19/17/15 | 23/21/18 | 26/24/22 | |
| | | cfm | 671/601/530 | 813/742/636 | 919/848/777 | |
| | Drive | | | Direct | Direct | Direct |
| | Speed control | | | Phase Control | Phase Control | Phase Control |
| Temperature Control | | | | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating |
| Sound Absorbing Thermal Insulation Material | | | | Foamed polystyrene | Foamed polystyrene | Foamed polystyrene |
| Safety Device | | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor |
| Pipe Connections | Liquid Side | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) | Ø9.52(3/8) | |
| | Gas Side | mm(inch) | Ø15.88(5/8) | Ø15.88(5/8) | Ø19.05(3/4) | |
| | Drain Pipe(OD) | mm | 32.0 | 32.0 | 32.0 | |
| Net Weight | | kg(lbs) | 32(70.5) | 32(70.5) | 32(70.5) | |
| Noise Level(Sound Press, 1.5m, H/M/L) | | dBA±3 | 41/38/36 | 42/40/38 | 43/41/39 | |
| Power Supply | | Ø / V / Hz | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 | |
| Refrigerant Control | | | | LEV | LEV | LEV |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C | |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | |
| Panel Color | | | | White | White | White |
| Stuffing Quantity | Without S/parts | 20/40ft | 72/144 | 72/144 | 72/144 | |

Notes:-

1. Capacities are based on the following conditions:

- Cooling
- Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Heating
- Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 - Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.:Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m³/min x 35.3

Heat Pump (50Hz)

| Model | | | Unit | LRNN386TDA(C)0 | LRNN426TDA(C)0 | LRNN486TDA(C)0 |
|---|----------------------|--|--|--|------------------------|------------------------|
| Cooling Capacity | | | W | 11,100 | 12,300 | 14,100 |
| | | | kcal/h | 9,544 | 10,578 | 12,126 |
| | | | Btu/h | 37,875 | 41,992 | 48,137 |
| Heating Capacity | | | W | 12,487 | 13,838 | 15,863 |
| | | | kcal/h | 10,737 | 11,040 | 13,156 |
| | | | Btu/h | 42,607 | 43,829 | 54,156 |
| Casing | | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions (W*H*D) | Body | mm | 840*840*290 | 840*840*290 | 840*840*290 | |
| | | inch | 33.0*33.0*11.4 | 33.0*33.0*11.4 | 33.0*33.0*11.4 | |
| | Front Panel | mm | 950*950*30 | 950*950*30 | 950*950*30 | |
| | | inch | 37.4*37.4*1.2 | 37.4*37.4*1.2 | 37.4*37.4*1.2 | |
| Coil | Rows x Columns x FPI | | 2*12*21 | 2*12*21 | 2*12*21 | |
| | Face Area | m² | 2*0.26 | 2*0.26 | 2*0.26 | |
| Fan | Type | | Turbo Fan | Turbo Fan | Turbo Fan | |
| | Motor Output | W | 60 | 60 | 60 | |
| | Running Current | A | 1.10 | 1.10 | 1.10 | |
| | Air Flow Rate(H/M/L) | cmm | 28/26 /24 | 32.5/30/28.1 | 34.5/32.5/30 | |
| | | cfm | 989/919/848 | 1148/1060/993 | 1219/1148/1060 | |
| | Drive | | Direct | Direct | Direct | |
| | Speed control | | Phase Control | Phase Control | Phase Control | |
| Temperature Control | | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | | |
| Sound Absorbing Thermal Insulation Material | | Foamed polystyrene | Foamed polystyrene | Foamed polystyrene | | |
| Safety Device | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | | |
| Pipe Connections | Liquid Side | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) | Ø9.52(3/8) | |
| | Gas Side | mm(inch) | Ø19.05(3/4) | Ø19.05(3/4) | Ø19.05(3/4) | |
| | Drain Pipe(OD) | mm | 32.0 | 32.0 | 32.0 | |
| Net Weight | | kg(lbs) | 32(70.5) | 32(70.5) | 32(70.5) | |
| Noise Level(Sound Press, 1.5m, H/M/L) | | dBA±3 | 43.5/41.5/39.5 | 44/42/40 | 45/43/41 | |
| Power Supply | | Ø / V / Hz | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 | |
| Refrigerant Control | | | LEV | LEV | LEV | |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C | |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | |
| Panel Color | | | White | White | White | |
| Stuffing Quantity | Without S/parts | 20/40ft | 72/144 | 72/144 | 72/144 | |

Notes:-

- Capacities are based on the following conditions:
 - Cooling
 - Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
 - Heating
 - Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 - Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Capacities are net capacities
- Due to our policy of innovation some specifications may be changed without notification
- L.E.V.:Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

1.2 60Hz

1.2.1 Cooling Only

Cooling Only (60Hz)

| Model | | | Unit | LRNV122TEA(C)0 | LRNV182TEA(C)0 | LRNV212TDA(C)0 |
|---|----------------------|------------|--|--|--|------------------------|
| Cooling Capacity | | | W | 3,500 | 5,300 | 6,200 |
| | | | kcal/h | 3,009 | 4,557 | 5,331 |
| | | | Btu/h | 11,942 | 18,084 | 21,155 |
| Heating Capacity | | | W | - | - | - |
| | | | kcal/h | - | - | - |
| | | | Btu/h | - | - | - |
| Casing | | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions (W*H*D) | Body | mm | 570*570*269 | 570*570*269 | 840*840*290 | |
| | | inch | 22.4*22.4*10.5 | 22.4*22.4*10.5 | 33.0*33.0*11.4 | |
| | Front Panel | mm | 670*670*30 | 670*670*30 | 950*950*30 | |
| | | inch | 26.4*26.4*1.2 | 26.4*26.4*1.2 | 37.4*37.4*1.2 | |
| Coil | Rows x Columns x FPI | | 2*11*19 | 2*11*19 | 2*12*21 | |
| | Face Area | m² | 0.27 | 0.27 | 2*0.26 | |
| Fan | Type | | Turbo Fan | Turbo Fan | Turbo Fan | |
| | Motor Output | W | 20 | 25 | 60 | |
| | Running Current | A | 0.69 | 0.69 | 0.80 | |
| | Air Flow Rate(H/M/L) | cmm | 11/10/9 | 13/12/10 | 18/15.9/13.9 | |
| | | cfm | 389/353/318 | 459/424/353 | 636/562/491 | |
| | Drive | | Direct | Direct | Direct | |
| | Speed control | | Phase Control | Phase Control | Phase Control | |
| Temperature Control | | | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystyrene | Foamed polystyrene | Foamed polystyrene | |
| Safety Device | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | |
| Pipe Connections | Liquid Side | mm(inch) | Ø6.35(1/4) | Ø9.52(3/8) | Ø9.52(3/8) | |
| | Gas Side | mm(inch) | Ø12.7(1/2) | Ø15.88(5/8) | Ø15.88(5/8) | |
| | Drain Pipe(OD) | mm | 32.0 | 32.0 | 32.0 | |
| Net Weight | | kg(lbs) | 19(41.9) | 19(41.9) | 32(70.5) | |
| Noise Level(Sound Press, 1.5m, H/M/L) | | dBA±3 | 38/35/32 | 41/39/37 | 40/37/35 | |
| Power Supply | | Ø / V / Hz | 1 / 220 / 60 | 1 / 220 / 60 | 1 / 220 / 60 | |
| Refrigerant Control | | | LEV | LEV | LEV | |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C | |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | |
| Panel Color | | | White | White | White | |
| Stuffing Quantity | Without S/parts | 20/40ft | 189/378 | 189/378 | 72/144 | |

Notes:-

- Capacities are based on the following conditions:
Cooling
 - Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Capacities are net capacities
- Due to our policy of innovation some specifications may be changed without notification
- L.E.V.:Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

Cooling Only (60Hz)

| Model | | | Unit | LRNV242TDA(C)0 | LRNV282TDA(C)0 | LRNV362TDA(C)0 |
|---|----------------------|------------|--|--|--|------------------------|
| Cooling Capacity | | | W | 7,000 | 8,200 | 10,600 |
| | | | kcal/h | 6,019 | 7,052 | 9,116 |
| | | | Btu/h | 23,885 | 27,995 | 36,168 |
| Heating Capacity | | | W | - | - | - |
| | | | kcal/h | - | - | - |
| | | | Btu/h | - | - | - |
| Casing | | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions (W*H*D) | Body | mm | 840*840*290 | 840*840*290 | 840*840*290 | |
| | | inch | 33.0*33.0*11.4 | 33.0*33.0*11.4 | 33.0*33.0*11.4 | |
| | Front Panel | mm | 950*950*30 | 950*950*30 | 950*950*30 | |
| | | inch | 37.4*37.4*1.2 | 37.4*37.4*1.2 | 37.4*37.4*1.2 | |
| Coil | Rows x Columns x FPI | | 2*12*21 | 2*12*21 | 2*12*21 | |
| | Face Area | m² | 2*0.26 | 2*0.26 | 2*0.26 | |
| Fan | Type | | Turbo Fan | Turbo Fan | Turbo Fan | |
| | Motor Output | | W | 60 | 60 | |
| | Running Current | | A | 0.80 | 0.80 | |
| | Air Flow Rate(H/M/L) | cmm | 19/17/15 | 23/21/18 | 26/24/22 | |
| | | cfm | 671/601/530 | 813/742/636 | 919/848/777 | |
| | Drive | | Direct | Direct | Direct | |
| | Speed control | | Phase Control | Phase Control | Phase Control | |
| Temperature Control | | | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystrene | Foamed polystrene | Foamed polystrene | |
| Safety Device | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | |
| Pipe Connections | Liquid Side | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) | Ø9.52(3/8) | |
| | Gas Side | mm(inch) | Ø15.88(5/8) | Ø15.88(5/8) | Ø19.05(3/4) | |
| | Drain Pipe(OD) | mm | 32.0 | 32.0 | 32.0 | |
| Net Weight | | kg(lbs) | 32(70.5) | 32(70.5) | 32(70.5) | |
| Noise Level(Sound Press, 1.5m, H/M/L) | | dBA±3 | 41/38/36 | 42/40/38 | 43/41/39 | |
| Power Supply | | Ø / V / Hz | 1 / 220 / 60 | 1 / 220 / 60 | 1 / 220 / 60 | |
| Refrigerant Control | | | LEV | LEV | LEV | |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C | |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | |
| Panel Color | | | White | White | White | |
| Stuffing Quantity | Without S/parts | 20/40ft | 72/144 | 72/144 | 72/144 | |

Notes:-

- Capacities are based on the following conditions:
Cooling
 - Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Capacities are net capacities
- Due to our policy of innovation some specifications may be changed without notification
- L.E.V.:Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m³/min x 35.3

Specifications

Cooling Only (60Hz)

| Model | | | Unit | LRNV382TDA(C)0 | LRNV422TDA(C)0 | LRNV482TDA(C)0 |
|---|----------------------|------------|--|--|--|----------------|
| Cooling Capacity | | | W | 11,100 | 12,300 | 14,100 |
| | | | kcal/h | 9,544 | 10,578 | 12,126 |
| | | | Btu/h | 37,875 | 41,992 | 48,137 |
| Heating Capacity | | | W | - | - | - |
| | | | kcal/h | - | - | - |
| | | | Btu/h | - | - | - |
| Casing | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate | |
| Dimensions (W*H*D) | Body | mm | 840*840*290 | 840*840*290 | 840*840*290 | |
| | | inch | 33.0*33.0*11.4 | 33.0*33.0*11.4 | 33.0*33.0*11.4 | |
| | Front Panel | mm | 950*950*30 | 950*950*30 | 950*950*30 | |
| | | inch | 37.4*37.4*1.2 | 37.4*37.4*1.2 | 37.4*37.4*1.2 | |
| Coil | Rows x Columns x FPI | | 2*12*21 | 2*12*21 | 2*12*21 | |
| | Face Area | | m² | 2*0.26 | 2*0.26 | |
| Fan | Type | | Turbo Fan | Turbo Fan | Turbo Fan | |
| | Motor Output | | W | 60 | 60 | |
| | Running Current | | A | 1.10 | 1.10 | |
| | Air Flow Rate(H/M/L) | cmm | 28/26 /24 | 32.5/30/28.1 | 34.5/32.5/30 | |
| | | cfm | 989/919/848 | 1148/1060/993 | 1219/1148/1060 | |
| | Drive | | Direct | Direct | Direct | |
| | Speed control | | Phase Control | Phase Control | Phase Control | |
| Temperature Control | | | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystrene | Foamed polystrene | Foamed polystrene | |
| Safety Device | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | |
| Pipe Connections | Liquid Side | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) | Ø9.52(3/8) | |
| | Gas Side | mm(inch) | Ø19.05(3/4) | Ø19.05(3/4) | Ø19.05(3/4) | |
| | Drain Pipe(OD) | mm | 32.0 | 32.0 | 32.0 | |
| Net Weight | | kg(lbs) | 32(70.5) | 32(70.5) | 32(70.5) | |
| Noise Level(Sound Press, 1.5m, H/M/L) | | dBA±3 | 43.5/41.5/39.5 | 44/42/40 | 45/43/41 | |
| Power Supply | | Ø / V / Hz | 1 / 220 / 60 | 1 / 220 / 60 | 1 / 220 / 60 | |
| Refrigerant Control | | | LEV | LEV | LEV | |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C | |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | |
| Panel Color | | | White | White | White | |
| Stuffing Quantity | Without S/parts | 20/40ft | 72/144 | 72/144 | 72/144 | |

Notes:-

1. Capacities are based on the following conditions:

- Cooling
 - Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.:Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m³/min x 35.3

2.2.2 Heat Pump

Heat Pump (60Hz)

| Model | | | Unit | LRNN122TEA(C)0 | LRNN182TEA(C)0 | LRNN212TDA(C)0 |
|---|----------------------|----------|--|--|--|------------------|
| Cooling Capacity | | | W | 3,500 | 5,300 | 6,200 |
| | | | kcal/h | 3,009 | 4,557 | 5,331 |
| | | | Btu/h | 11,942 | 18,084 | 21,155 |
| Heating Capacity | | | W | 3,938 | 5,963 | 6,975 |
| | | | kcal/h | 3,385 | 5,127 | 5,997 |
| | | | Btu/h | 13,435 | 20,345 | 23,800 |
| Casing | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate | |
| Dimensions (W*H*D) | Body | mm | 570*570*269 | 570*570*269 | 840*840*290 | |
| | | inch | 22.4*22.4*10.5 | 22.4*22.4*10.5 | 33.0*33.0*11.4 | |
| | Front Panel | mm | 670*670*30 | 670*670*30 | 950*950*30 | |
| | | inch | 26.4*26.4*1.2 | 26.4*26.4*1.2 | 37.4*37.4*1.2 | |
| Coil | Rows x Columns x FPI | | 2*11*19 | 2*11*19 | 2*12*21 | |
| | Face Area | m² | 0.27 | 0.27 | 2*0.26 | |
| Fan | Type | | Turbo Fan | Turbo Fan | Turbo Fan | |
| | Motor Output | | W | 20 | 25 | 60 |
| | Running Current | | A | 0.69 | 0.69 | 0.80 |
| | Air Flow Rate(H/M/L) | cmm | 11/10/9 | 13/12/10 | 18/15.9/13.9 | |
| | | cfm | 389/353/318 | 459/424/353 | 636/562/491 | |
| | Drive | | Direct | Direct | Direct | |
| | Speed control | | Phase Control | Phase Control | Phase Control | |
| Temperature Control | | | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystyrene | Foamed polystyrene | Foamed polystyrene | |
| Safety Device | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | |
| Pipe Connections | Liquid Side | mm(inch) | Ø6.35(1/4) | Ø9.52(3/8) | Ø9.52(3/8) | |
| | Gas Side | mm(inch) | Ø12.7(1/2) | Ø15.88(5/8) | Ø15.88(5/8) | |
| | Drain Pipe(OD) | mm | 32.0 | 32.0 | 32.0 | |
| Net Weight | | | kg(lbs) | 19(41.9) | 19(41.9) | 32(70.5) |
| Noise Level(Sound Press, 1.5m, H/M/L) | | | dBA±3 | 38/35/32 | 41/39/37 | 40/37/35 |
| Power Supply | | | Ø / V / Hz | 1 / 220 / 60 | 1 / 220 / 60 | 1 / 220 / 60 |
| Refrigerant Control | | | LEV | LEV | LEV | |
| Power cable | | | mm² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C |
| Transmission cable | | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C |
| Panel Color | | | White | White | White | |
| Stuffing Quantity | Without S/parts | 20/40ft | 189/378 | 189/378 | 72/144 | |

Notes:-

- Capacities are based on the following conditions:
 - Cooling
 - Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
 - Heating
 - Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 - Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.:Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

Specifications

Heat Pump (60Hz)

| Model | | | Unit | LRNN242TDA(C)0 | LRNN282TDA(C)0 | LRNN362TDA(C)0 |
|---|----------------------|------------|--|--|--|------------------------|
| Cooling Capacity | | | W | 7,000 | 8,200 | 10,600 |
| | | | kcal/h | 6,019 | 7,052 | 9,116 |
| | | | Btu/h | 23,885 | 27,995 | 36,168 |
| Heating Capacity | | | W | 7,875 | 9,225 | 11,925 |
| | | | kcal/h | 6,771 | 7,934 | 10,253 |
| | | | Btu/h | 26,870 | 31,494 | 40,689 |
| Casing | | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions (W*H*D) | Body | mm | 840*840*290 | 840*840*290 | 840*840*290 | |
| | | inch | 33.0*33.0*11.4 | 33.0*33.0*11.4 | 33.0*33.0*11.4 | |
| | Front Panel | mm | 950*950*30 | 950*950*30 | 950*950*30 | |
| | | inch | 37.4*37.4*1.2 | 37.4*37.4*1.2 | 37.4*37.4*1.2 | |
| Coil | Rows x Columns x FPI | | 2*12*21 | 2*12*21 | 2*12*21 | |
| | Face Area | m² | 2*0.26 | 2*0.26 | 2*0.26 | |
| Fan | Type | | Turbo Fan | Turbo Fan | Turbo Fan | |
| | Motor Output | | W | 60 | 60 | |
| | Running Current | | A | 0.80 | 0.80 | |
| | Air Flow Rate(H/M/L) | cmm | 19/17/15 | 23/21/18 | 26/24/22 | |
| | | cfm | 671/601/530 | 813/742/636 | 919/848/777 | |
| | Drive | | Direct | Direct | Direct | |
| | Speed control | | Phase Control | Phase Control | Phase Control | |
| Temperature Control | | | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystrene | Foamed polystrene | Foamed polystrene | |
| Safety Device | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | |
| Pipe Connections | Liquid Side | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) | Ø9.52(3/8) | |
| | Gas Side | mm(inch) | Ø15.88(5/8) | Ø15.88(5/8) | Ø19.05(3/4) | |
| | Drain Pipe(OD) | mm | 32.0 | 32.0 | 32.0 | |
| Net Weight | | kg(lbs) | 32(70.5) | 32(70.5) | 32(70.5) | |
| Noise Level(Sound Press, 1.5m, H/M/L) | | dBA±3 | 41/38/36 | 42/40/38 | 43/41/39 | |
| Power Supply | | Ø / V / Hz | 1 / 220 / 60 | 1 / 220 / 60 | 1 / 220 / 60 | |
| Refrigerant Control | | | LEV | LEV | LEV | |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C | |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | |
| Panel Color | | | White | White | White | |
| Stuffing Quantity | Without S/parts | 20/40ft | 72/144 | 72/144 | 72/144 | |

Notes:-

- Capacities are based on the following conditions:
 - Cooling
 - Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
 - Heating
 - Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 - Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Capacities are net capacities
- Due to our policy of innovation some specifications may be changed without notification
- L.E.V.:Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

Heat Pump (60Hz)

| Model | | | Unit | LRNN382TDA(C)0 | LRNN422TDA(C)0 | LRNN482TDA(C)0 |
|---|----------------------|------------|--|--|--|------------------------|
| Cooling Capacity | | | W | 11,100 | 12,300 | 14,100 |
| | | | kcal/h | 9,544 | 10,578 | 12,126 |
| | | | Btu/h | 37,875 | 41,992 | 48,137 |
| Heating Capacity | | | W | 12,487 | 13,838 | 15,863 |
| | | | kcal/h | 10,737 | 11,040 | 13,156 |
| | | | Btu/h | 42,607 | 43,829 | 54,156 |
| Casing | | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions (W*H*D) | Body | mm | 840*840*290 | 840*840*290 | 840*840*290 | |
| | | inch | 33.0*33.0*11.4 | 33.0*33.0*11.4 | 33.0*33.0*11.4 | |
| | Front Panel | mm | 950*950*30 | 950*950*30 | 950*950*30 | |
| | | inch | 37.4*37.4*1.2 | 37.4*37.4*1.2 | 37.4*37.4*1.2 | |
| Coil | Rows x Columns x FPI | | 2*12*21 | 2*12*21 | 2*12*21 | |
| | Face Area | m² | 2*0.26 | 2*0.26 | 2*0.26 | |
| Fan | Type | | Turbo Fan | Turbo Fan | Turbo Fan | |
| | Motor Output | | W | 60 | 60 | |
| | Running Current | | A | 1.10 | 1.10 | |
| | Air Flow Rate(H/M/L) | cmm | 28/26 /24 | 32.5/30/28.1 | 34.5/32.5/30 | |
| | | cfm | 989/919/848 | 1148/1060/993 | 1219/1148/1060 | |
| | Drive | | Direct | Direct | Direct | |
| | Speed control | | Phase Control | Phase Control | Phase Control | |
| Temperature Control | | | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystrene | Foamed polystrene | Foamed polystrene | |
| Safety Device | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | |
| Pipe Connections | Liquid Side | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) | Ø9.52(3/8) | |
| | Gas Side | mm(inch) | Ø19.05(3/4) | Ø19.05(3/4) | Ø19.05(3/4) | |
| | Drain Pipe(OD) | mm | 32.0 | 32.0 | 32.0 | |
| Net Weight | | kg(lbs) | 32(70.5) | 32(70.5) | 32(70.5) | |
| Noise Level(Sound Press, 1.5m, H/M/L) | | dBA±3 | 43.5/41.5/39.5 | 44/42/40 | 45/43/41 | |
| Power Supply | | Ø / V / Hz | 1 / 220 / 60 | 1 / 220 / 60 | 1 / 220 / 60 | |
| Refrigerant Control | | | LEV | LEV | LEV | |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C | |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | |
| Panel Color | | | White | White | White | |
| Stuffing Quantity | Without S/parts | 20/40ft | 72/144 | 72/144 | 72/144 | |

Notes:-

1. Capacities are based on the following conditions:

- Cooling
 - Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Heating
 - Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 - Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.:Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m³/min x 35.3

2. Functions

Indoor Unit

Operation ON/OFF by Remote controller

Sensing the Room Temperature

- Room temperature sensor. (Thermistor)

Room temperature control

- Maintains the room temperature in accordance with the Setting Temperature.

Starting Current Control

- Indoor fan is delayed for 5 seconds at the starting.

Time Delay Safety Control

- Restarting is inhibited for approx. 3 minutes.

Indoor Fan Speed Control

- Jet, High, Med, Low

Soft Dry Operation Mode

- Intermittent operation of fan at low speed.

Airflow Direction Control

- The louver can be set at swing up and down automatically.

Auto Restart

- Although the air-conditioner is turned off by a power failure, it is restarted automatically previous operation mode after power supply.

Deice (defrost) control (Heating)

- Both the indoor and outdoor fan stops during defrosting.
- Hot start after defrost ends.

Hot-start Control (Heating)

- The indoor fan does not rotate until the evaporator piping temperature will be reached at 25°C.

Compact and light design

- To install a unit is very convenient because of smaller size than textile.

Low noise

- The most advanced low-noise design.
- The adoption of turbo fan and round type heat exchanger give the quietest operation.

Long life filter

- Long life wrinkle(type) and washable and anti-bacteria filter is adopted.

High head Drain pump

- Built-in drain pump automatically drains water.
- A standard drain-head height of up to 700mm is possible.

High-Ceiling corresponding Function

- According to the height of ceiling, the RPM of indoor fan motor is selected to increase air reaching distance.

Central Control(Optional)

- It is operating individually or totally by central control function.

3. Operation detail

(1) The function of main control

■ Time Delay Safety Control

- 5 sec... Vertical air flow direction control louvers open in 5 seconds to prevent noise between louvers and wind.
- 5 sec... The 4-way valve is ceased for 5 sec. to prevent the refrigerant-gas abnormal noise when the Heating operation is OFF or switched to the other operation mode when compress is off.
While compressor is running, it takes 3~5 seconds to switch.

■ Auto Swing Control

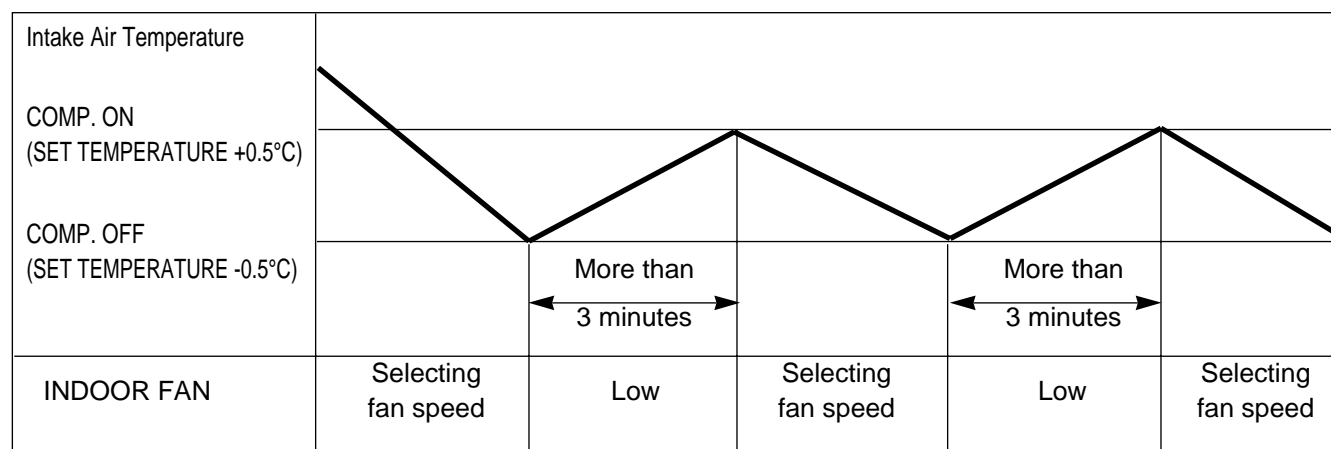
- This function is to swing the louver up and down automatically.

■ Soft-Dry Operation

- The indoor fan speed is automatically set to the low, so the shift of the indoor fan speed is impossible because of already being set to the best speed for Dry Operation by microcontroller control.

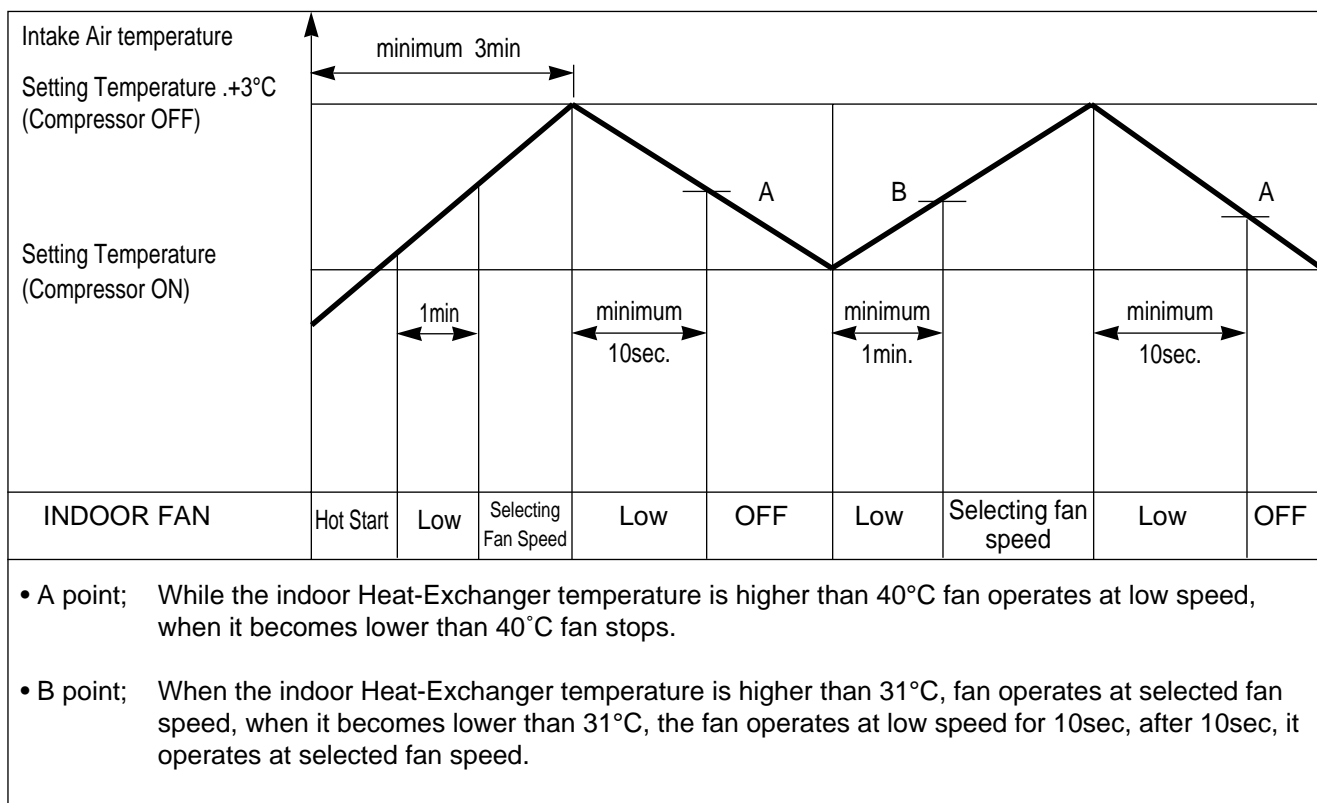
■ Cooling Mode Operation

- When selecting the Cooling(※) Mode Operation, the unit will operate according to the setting by the remote controller and the operation diagram is as following



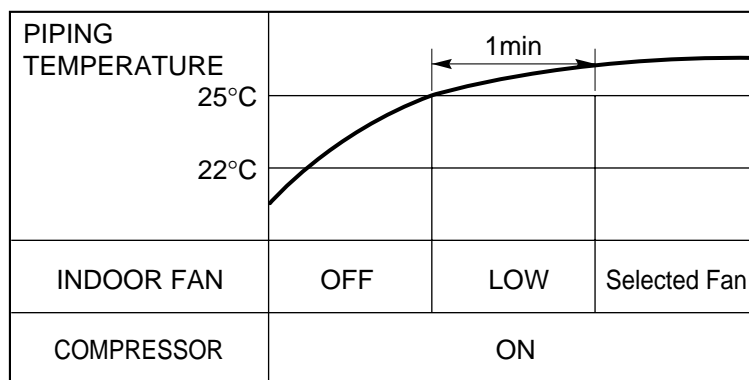
■ Heating Mode Operation

The unit will operate according to the setting by the remote controller and the operation diagram is shown as following.



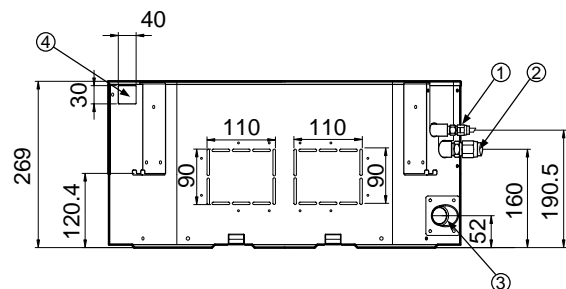
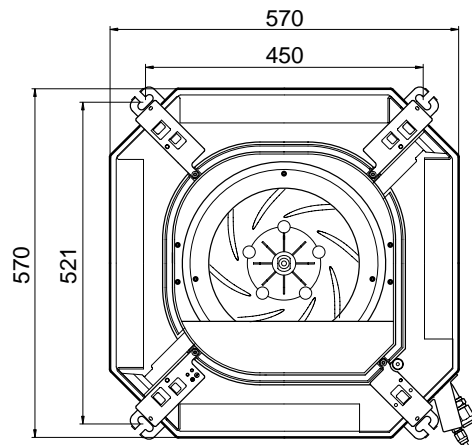
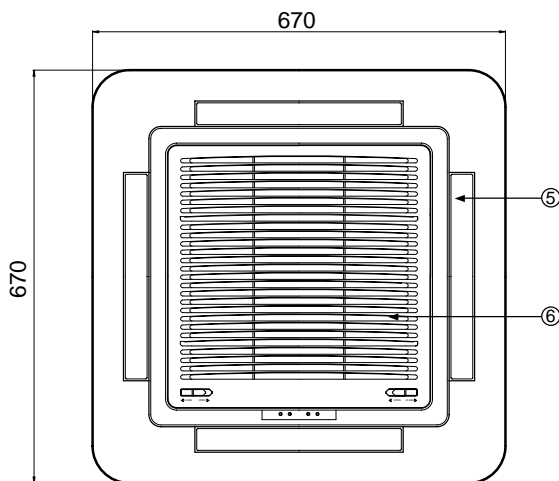
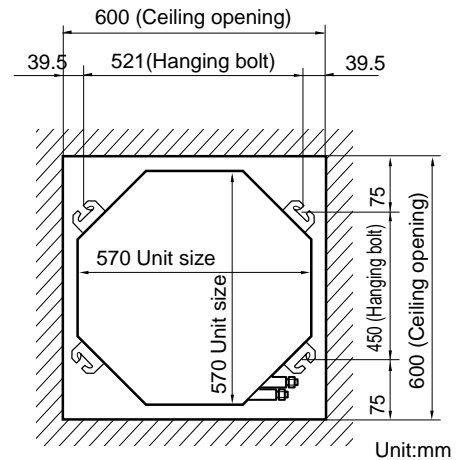
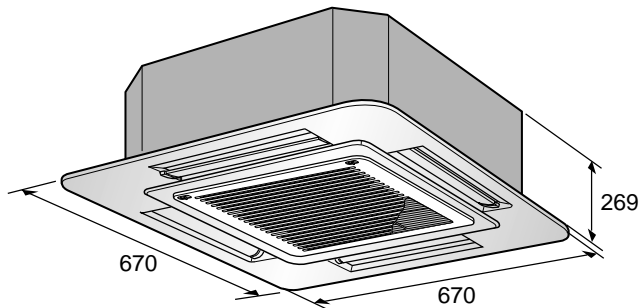
■ Hot-start Control

- The indoor fan does not rotate until the evaporator piping temperature will be reached to 25°C.
- The operation diagram is as following.



4. Dimensional Drawings

LRNV126TEA(C)0/LRNN126TEA(C)0/LRNV12TEA(C)0/LRNN122TEA(C)0
 LRNV186TEA(C)0/LRNN186TEA(C)0/LRNV182TEA(C)0/LRNN182TEA(C)0

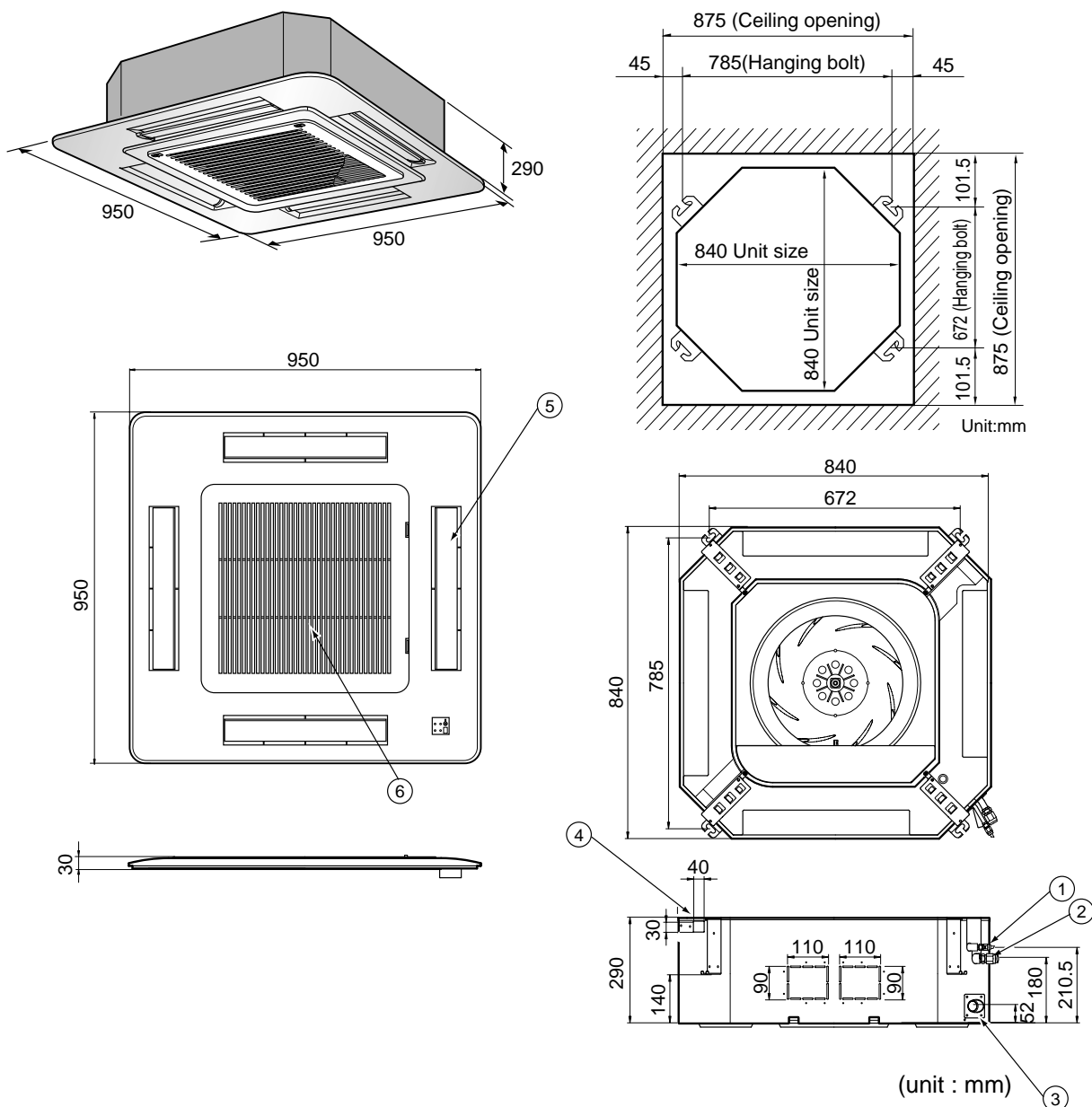


(unit : mm)

| Number | Name | Description |
|--------|-------------------------|--|
| 1 | Liquid pipe connection | Unit Size(12k): \varnothing 6.35, (18k): \varnothing 9.52 |
| 2 | Gas pipe connection | Unit Size(12k): \varnothing 12.7, (18k): \varnothing 15.88 |
| 3 | Drain pipe connection | |
| 4 | Power supply connection | |
| 5 | Air discharge grill | |
| 6 | Air suction grill | |

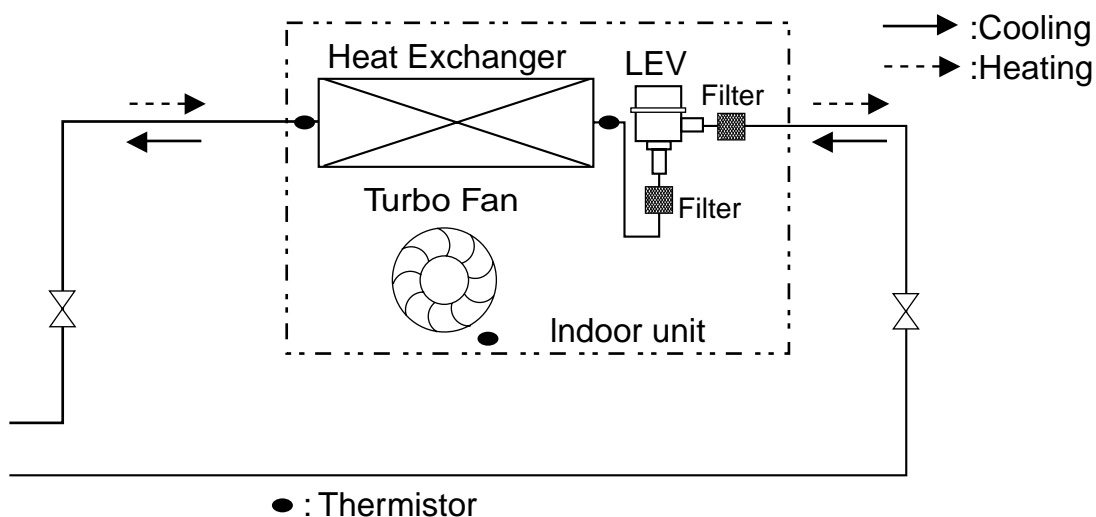
Dimensional Drawings

LRNV216TDA(C)0 / LRNN216TDA(C)0 / LRNV212TDA(C)0 / LRNN212TDA(C)0
 LRNV246TDA(C)0 / LRNN246TDA(C)0 / LRNV242TDA(C)0 / LRNN242TDA(C)0
 LRNV286TDA(C)0 / LRNN286TDA(C)0 / LRNV282TDA(C)0 / LRNN282TDA(C)0
 LRNV366TDA(C)0 / LRNN366TDA(C)0 / LRNV362TDA(C)0 / LRNN362TDA(C)0
 LRNV386TDA(C)0 / LRNN386TDA(C)0 / LRNV382TDA(C)0 / LRNN382TDA(C)0
 LRNV426TDA(C)0 / LRNN426TDA(C)0 / LRNV422TDA(C)0 / LRNN422TDA(C)0
 LRNV486TDA(C)0 / LRNN486TDA(C)0 / LRNV482TDA(C)0 / LRNN482TDA(C)0



| Number | Name | Description |
|--------|-------------------------|--|
| 1 | Liquid pipe connection | Unit Size(21k24k, 28k):Ø9.52, (36k, 38k, 42k, 48k):Ø9.52 |
| 2 | Gas pipe connection | Unit Size(21k, 24k, 28k):Ø15.88, (36k, 38k, 42k, 48k):Ø19.05 |
| 3 | Drain pipe connection | |
| 4 | Power supply connection | |
| 5 | Air discharge grill | |
| 6 | Air suction grill | |

5. Piping Diagrams

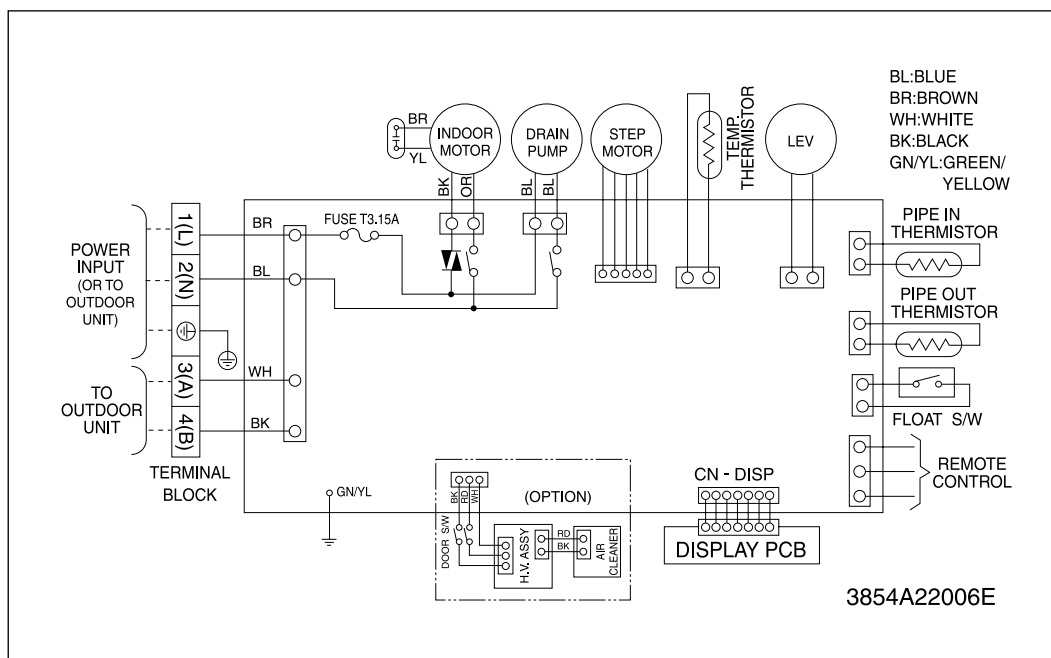


Refrigerant pipe connection port diameter

[unit: mm(inch)]

| Model | Gas | Liquid |
|---|-------------|------------|
| LRNV126TEA(C)/LRNN126TEA(C)/LRNV122TEA(C)/LRNN122TEA(C) | Ø12.7(1/2) | Ø6.35(1/4) |
| LRNV186TEA(C)/LRNN186TEA(C)/LRNV182TEA(C)/LRNN182TEA(C) | Ø15.88(5/8) | Ø9.52(3/8) |
| LRNV216TDA(C)/LRNN216TDA(C)/LRNV212TDA(C)/LRNN212TDA(C) | Ø15.88(5/8) | Ø9.52(3/8) |
| LRNV246TDA(C)/LRNN246TDA(C)/LRNV242TDA(C)/LRNN242TDA(C) | Ø15.88(5/8) | Ø9.52(3/8) |
| LRNV286TDA(C)/LRNN286TDA(C)/LRNV282TDA(C)/LRNN282TDA(C) | Ø15.88(5/8) | Ø9.52(3/8) |
| LRNV366TDA(C)/LRNN366TDA(C)/LRNV362TDA(C)/LRNN362TDA(C) | Ø19.05(3/4) | Ø9.52(3/8) |
| LRNV386TDA(C)/LRNN386TDA(C)/LRNV382TDA(C)/LRNN382TDA(C) | Ø19.05(3/4) | Ø9.52(3/8) |
| LRNV426TDA(C)/LRNN426TDA(C)/LRNV422TDA(C)/LRNN422TDA(C) | Ø19.05(3/4) | Ø9.52(3/8) |
| LRNV486TDA(C)/LRNN486TDA(C)/LRNV482TDA(C)/LRNN482TDA(C) | Ø19.05(3/4) | Ø9.52(3/8) |

6. Wiring Diagrams



| CONNECTOR NUMBER | SPEC | COLOR | DESCRIPTION |
|------------------|-----------------------|--------|---|
| CN-POWER | AC POWER SUPPLY | WHITE | AC POWER LINE INPUT FOR INDOOR CONTROLLER |
| CN-MOTOR2 | AC FAN MOTOR OUTPUT | YELLOW | MOTOR OUTPUT OF PHASE CONTROL |
| CN-D/PUMP | DRAIN PUMP OUTPUT | WHITE | AC OUTPUT FOR DRAIN PUMP |
| CN-COMM | COMMUNICATION | WHITE | CONNECTION BETWEEN INDOOR AND OUTDOOR |
| CN-DISP1 | DISPLAY | BLUE | DISPLAY OF INDOOR STATUS |
| CN-LEV | LEV OUTPUT | WHITE | LEV CONTROL OUTPUT |
| CN-STEP/M1 | STEP MOTOR | WHITE | STEP MOTOR OUTPUT |
| CN-FLOAT | FLOAT SWITCH INPUT | BLUE | FLOAT SWITCH SENSING |
| CN-PIPE | PIPE SENSOR | WHITE | PIPE THERMISTOR |
| CN-PIPE/O | DISCHARGE PIPE SENSOR | RED | DISCHARGE PIPE THERMISTOR |
| CN-ROOM | ROOM SENSOR | YELLOW | ROOM THERMISTOR |
| CN-REMO | REMOTE CONTROLLER | WHITE | REMOTE CONTROL LINE |

Ceiling Concealed Duct Type (High static)

| | |
|--------------------------------------|-----------|
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| 6. Wiring Diagrams | 71 |

1. Specifications

1.1 50Hz

1.1.1 Cooling Only

Cooling Only (50Hz)

| Model | | Unit | LRNV186BHA0 | LRNV216BHA0 | LRNV246BHA0 |
|---|--------------------------|-----------------|--|--|--|
| Cooling Capacity | | W | 5,300 | 6,200 | 7,000 |
| | | kcal/h | 4,557 | 5,331 | 6,019 |
| | | Btu/h | 18,084 | 21,155 | 23,885 |
| Heating Capacity | | W | - | - | - |
| | | kcal/h | - | - | - |
| | | Btu/h | - | - | - |
| Casing | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions (W*H*D) Body | | mm | 882*260*450 | 882*260*450 | 882*260*450 |
| | | inch | 34.7*10.2*17.7 | 34.7*10.2*17.7 | 34.6*0.2*17.7 |
| Coil | Rows x Columns x FPI | | 3*10*21 | 3*10*21 | 3*10*21 |
| | Face Area | m ² | 0.15 | 0.15 | 0.15 |
| Fan | Type | | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output | W | 118 | 118 | 118 |
| | Running Current | A | 0.92 | 0.92 | 0.92 |
| | Air Flow Rate(H/M/L) | cmm | 15.3/13.6/10.3 | 15.8/13.9/10.7 | 16.0/14.1/11.1 |
| | | cfm | 540/480/364 | 558/489/378 | 565/498/392 |
| | External Static Pressure | Pa | 78.5 | 78.5 | 78.5 |
| | Drive | | Direct | Direct | Direct |
| | Speed control | | Phase Control | Phase Control | Phase Control |
| Temperature Control | | | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystyrene | Foamed polystyrene | Foamed polystyrene |
| Air Filter | | | - | - | - |
| Safety Device | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor |
| Pipe Connections | Liquid Side | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) | Ø9.52(3/8) |
| | Gas Side | mm(inch) | Ø15.88(5/8) | Ø15.88(5/8) | Ø15.88(5/8) |
| | Drain Pipe(ID) | mm | 25.4 | 25.4 | 25.4 |
| Net Weight | | kg(lbs) | 34(74.9) | 35(77.2) | 35(77.2) |
| Noise Level (Sound Press, 1.5m, H/M/L) | | dBA±3 | 39/36/34 | 39.5/37/34.5 | 40/38/35 |
| Power Supply | | Ø / V / Hz | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 |
| Refrigerant Control | | | LEV | LEV | LEV |
| Power cable | | mm ² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C |
| Transmission cable | | mm ² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C |
| Stuffing Quantity | Without S/parts | 20/40ft | 120/252 | 120/252 | 120/252 |

Notes:-

1. Capacities are based on the following conditions:

- Cooling • Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
- Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
- Interconnecting Piping Length 7.5m
- Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.: Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m³/min x 35.3

Cooling Only (50Hz)

| Model | | | Unit | LRNV286BGA0 | LRNV366BGA0 | LRNV386BGA0 |
|---|--------------------------|----------------|-----------------|--|--|--|
| Cooling Capacity | | | W | 8,200 | 10,600 | 11,100 |
| | | | kcal/h | 7,052 | 9,116 | 9,544 |
| | | | Btu/h | 27,995 | 36,168 | 37,875 |
| Heating Capacity | | | W | - | - | - |
| | | | kcal/h | - | - | - |
| | | | Btu/h | - | - | - |
| Casing | | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions (W*H*D) Body | | | mm | 1182*298*450 | 1182*298*450 | 1182*298*450 |
| | | | inch | 46.5*10.2*17.7 | 46.5*10.2*17.7 | 46.5*10.2*17.7 |
| Coil | Rows x Columns x FPI | | | 3*12*21 | 3*12*21 | 3*12*21 |
| | Face Area | m ² | | 0.26 | 0.26 | 0.26 |
| Fan | Type | | | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output | W | | 272 | 272 | 272 |
| | Running Current | A | | 1.42 | 1.42 | 1.42 |
| | Air Flow Rate(H/M/L) | cmm | | 25.3/21.8/17.6 | 28.4/25.3/21.8 | 29.6/26.3/23.6 |
| | | cfm | | 893/770/622 | 1003/893/770 | 1045/930/833 |
| | External Static Pressure | Pa | | 78.5 | 78.5 | 78.5 |
| | Drive | | | Direct | Direct | Direct |
| Speed control | | | | Phase Control | Phase Control | Phase Control |
| Temperature Control | | | | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling |
| Sound Absorbing Thermal Insulation Material | | | | Foamed polystyrene | Foamed polystyrene | Foamed polystyrene |
| Air Filter | | | | - | - | - |
| Safety Device | | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor |
| Pipe Connections | Liquid Side | mm(inch) | | Ø9.52(3/8) | Ø9.52(3/8) | Ø9.52(3/8) |
| | Gas Side | mm(inch) | | Ø15.88(5/8) | Ø19.05(3/4) | Ø19.05(3/4) |
| | Drain Pipe(ID) | mm | | 25.0 | 25.0 | 25.0 |
| Net Weight | | | kg(lbs) | 38(83.8) | 38(83.8) | 38(83.8) |
| Noise Level (Sound Press, 1.5m, H/M/L) | | | dBA±3 | 42/40/38 | 44/42/40 | 46/44/42 |
| Power Supply | | | Ø / V / Hz | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 |
| Refrigerant Control | | | | LEV | LEV | LEV |
| Power cable | | | mm ² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C |
| Transmission cable | | | mm ² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C |
| Stuffing Quantity | Without S/parts | 20/40ft | | 95/191 | 95/191 | 95/191 |

Notes:-

1. Capacities are based on the following conditions:

- Cooling
- Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.: Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

Specifications

Cooling Only (50Hz)

| Model | | Unit | LRNV426BGA0 | LRNV486BEA0 |
|---|--------------------------|--|--|------------------------|
| Cooling Capacity | | W | 12,300 | 14,100 |
| | | kcal/h | 10,578 | 12,126 |
| | | Btu/h | 41,992 | 48,137 |
| Heating Capacity | | W | - | - |
| | | kcal/h | - | - |
| | | Btu/h | - | - |
| Casing | | | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions (W*H*D) Body | | mm | 1182*298*450 | 1230*370*680 |
| | | inch | 46.5*10.2*17.7 | 48.4*14.6*26.8 |
| Coil | Rows x Columns x FPI | | 3*12*21 | 3*14*17 |
| | Face Area | m² | 0.26 | 0.43 |
| Fan | Type | | Sirocco Fan | Sirocco Fan |
| | Motor Output | W | 272 | 320 |
| | Running Current | A | 1.42 | 4.00 |
| | Air Flow Rate(H/M/L) | cmm | 32.0/28.4/27.2 | 40.0/36.2/32.6 |
| | | cfm | 1130/1003/961 | 1412/1279/1151 |
| | External Static Pressure | Pa | 78.5 | 98.1 |
| | Drive | | Direct | Direct |
| | Speed control | | Phase Control | Steps Control |
| Temperature Control | | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | |
| Sound Absorbing Thermal Insulation Material | | Foamed polystrene | Foamed polystrene | |
| Air Filter | | - | - | |
| Safety Device | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | |
| Pipe Connections | Liquid Side | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) |
| | Gas Side | mm(inch) | Ø19.05(3/4) | Ø19.05(3/4) |
| | Drain Pipe(ID) | mm | 25.4 | 25.4 |
| Net Weight | | kg(lbs) | 38(83.8) | 70(154.3) |
| Noise Level (Sound Press,1.5m, H/M/L) | | dBA±3 | 46/44/42 | 48/46/44 |
| Power Supply | | Ø / V / Hz | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 |
| Refrigerant Control | | | LEV | LEV |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C |
| Stuffing Quantity | Without S/parts | 20/40ft | 95/191 | 50/110 |

Notes:-

1. Capacities are based on the following conditions:

- Cooling
 - Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.: Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m³/min x 35.3

1.1.2 Heat Pump

Heat Pump (50Hz)

| Model | | Unit | LRNN186BHA0 | LRNN216BHA0 | LRNN246BHA0 |
|---|--------------------------|--|--|--|----------------------------------|
| Cooling Capacity | | W | 5,300 | 6,200 | 7,000 |
| | | kcal/h | 4,557 | 5,331 | 6,019 |
| | | Btu/h | 18,084 | 21,155 | 23,885 |
| Heating Capacity | | W | 5,963 | 6,975 | 7,875 |
| | | kcal/h | 5,127 | 5,997 | 6,771 |
| | | Btu/h | 20,345 | 23,800 | 26,870 |
| Casing | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions (W*H*D) Body | | mm | 882*260*450 | 882*260*450 | 882*260*450 |
| | | inch | 34.7*10.2*17.7 | 34.7*10.2*17.7 | 34.7*10.2*17.7 |
| Coil | Rows x Columns x FPI | | 3*10*21 | 3*10*21 | 3*10*21 |
| | Face Area | m² | 0.15 | 0.15 | 0.15 |
| Fan | Type | | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output | W | 118 | 118 | 118 |
| | Running Current | A | 0.92 | 0.92 | 0.92 |
| | Air Flow Rate(H/M/L) | cmm | 15.3/13.6/10.3 | 15.8/13.9/10.7 | 16.0/14.1/11.1 |
| | | cfm | 540/480/364 | 558/489/378 | 565/498/392 |
| | External Static Pressure | Pa | 78.5 | 78.5 | 78.5 |
| | Drive | | Direct | Direct | Direct |
| | Speed control | | Phase Control | Phase Control | Phase Control |
| Temperature Control | | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | |
| Sound Absorbing Thermal Insulation Material | | Foamed polystyrene | Foamed polystyrene | Foamed polystyrene | |
| Air Filter | | - | - | - | |
| Safety Device | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor |
| Pipe Connections | Liquid Side | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) | Ø9.52(3/8) |
| | Gas Side | mm(inch) | Ø15.88(5/8) | Ø15.88(5/8) | Ø15.88(5/8) |
| | Drain Pipe(ID) | mm | 25.4 | 25.4 | 25.4 |
| Net Weight | | kg(lbs) | 34(74.9) | 35(77.2) | 35(77.2) |
| Noise Level (Sound Press,1.5m, H/M/L) | | dBA±3 | 39/36/34 | 39.5/37/34.5 | 40/38/35 |
| Power Supply | | Ø / V / Hz | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 |
| Refrigerant Control | | | LEV | LEV | LEV |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C |
| Stuffing Quantity | Without S/parts | 20/40ft | 120/252 | 120/252 | 120/252 |

Notes:-

1. Capacities are based on the following conditions:

- Cooling
- Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Heating
- Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 - Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.: Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

Specifications

Heat Pump (50Hz)

| Model | | | Unit | LRNN286BGA0 | LRNN366BGA0 | LRNN386BGA0 |
|---|--------------------------|------------|--|--|--|------------------------|
| Cooling Capacity | | | W | 8,200 | 10,600 | 11,100 |
| | | | kcal/h | 7,052 | 9,116 | 9,544 |
| | | | Btu/h | 27,995 | 36,168 | 37,875 |
| Heating Capacity | | | W | 9,225 | 11,925 | 12,487 |
| | | | kcal/h | 7,934 | 10,253 | 10,737 |
| | | | Btu/h | 31,494 | 40,689 | 42,607 |
| Casing | | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions (W*H*D) Body | | | mm | 1182*298*450 | 1182*298*450 | 1182*298*450 |
| | | | inch | 46.5*10.2*17.7 | 46.5*10.2*17.7 | 46.5*10.2*17.7 |
| Coil | Rows x Columns x FPI | | | 3*12*21 | 3*12*21 | 3*12*21 |
| | Face Area | m² | | 0.26 | 0.26 | 0.26 |
| Fan | Type | | | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output | W | | 272 | 272 | 272 |
| | Running Current | A | | 1.42 | 1.42 | 1.42 |
| | Air Flow Rate(H/M/L) | cmm | | 25.3/21.8/17.6 | 28.4/25.3/21.8 | 29.6/26.3/23.6 |
| | | cfm | | 893/770/622 | 1003/893/770 | 1045/930/833 |
| | External Static Pressure | Pa | | 78.5 | 78.5 | 78.5 |
| | Drive | | | Direct | Direct | Direct |
| | Speed control | | | Phase Control | Phase Control | Phase Control |
| Temperature Control | | | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystrene | Foamed polystrene | Foamed polystrene | |
| Air Filter | | | - | - | - | |
| Safety Device | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | |
| Pipe Connections | Liquid Side | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) | Ø9.52(3/8) | |
| | Gas Side | mm(inch) | Ø15.88(5/8) | Ø19.05(3/4) | Ø19.05(3/4) | |
| | Drain Pipe(ID) | mm | 25.4 | 25.4 | 25.4 | |
| Net Weight | | kg(lbs) | 38(83.8) | 38(83.8) | 38(83.8) | |
| Noise Level (Sound Press,1.5m, H/M/L) | | dBA±3 | 42/40/38 | 44/42/40 | 46/44/42 | |
| Power Supply | | Ø / V / Hz | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 | |
| Refrigerant Control | | | LEV | LEV | LEV | |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C | |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | |
| Stuffing Quantity | Without S/parts | 20/40ft | 95/191 | 95/191 | 95/191 | |

Notes:-

1. Capacities are based on the following conditions:

- Cooling
 - Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Heating
 - Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 - Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.: Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m³/min x 35.3

Heat Pump (50Hz)

| Model | | | Unit | LRNN426BGA0 | LRNN486BEA0 |
|---|--------------------------|------------|--|--|----------------|
| Cooling Capacity | | | W | 12,300 | 14,100 |
| | | | kcal/h | 10,578 | 12,126 |
| | | | Btu/h | 41,992 | 48,137 |
| Heating Capacity | | | W | 13,838 | 15,863 |
| | | | kcal/h | 11,040 | 13,156 |
| | | | Btu/h | 43,829 | 54,156 |
| Casing | | | Galvanized Steel Plate | Galvanized Steel Plate | |
| Dimensions (W*H*D) Body | | | mm | 1182*298*450 | 1230*370*680 |
| | | | inch | 46.5*10.2*17.7 | 48.4*14.6*26.8 |
| Coil | Rows x Columns x FPI | | 3*12*21 | 3*14*17 | |
| | Face Area | m² | 0.26 | 0.43 | |
| Fan | Type | | Sirocco Fan | Sirocco Fan | |
| | Motor Output | W | 272 | 320 | |
| | Running Current | A | 1.42 | 4.00 | |
| | Air Flow Rate(H/M/L) | cmm | 32.0/28.4/27.2 | 40.0/36.2/32.6 | |
| | | cfm | 1130/1003/961 | 1412/1279/1151 | |
| | External Static Pressure | Pa | 78.5 | 98.1 | |
| | Drive | | Direct | Direct | |
| | Speed control | | Phase Control | Steps Control | |
| Temperature Control | | | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystyrene | Foamed polystyrene | |
| Air Filter | | | - | - | |
| Safety Device | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | |
| Pipe Connections | Liquid Side | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) | |
| | Gas Side | mm(inch) | Ø19.05(3/4) | Ø19.05(3/4) | |
| | Drain Pipe(ID) | mm | 25.4 | 25.4 | |
| Net Weight | | kg(lbs) | 38(83.8) | 70(154.3) | |
| Noise Level (Sound Press,1.5m, H/M/L) | | dBA±3 | 46/44/42 | 48/46/44 | |
| Power Supply | | Ø / V / Hz | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 | |
| Refrigerant Control | | | LEV | LEV | |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C | |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | |
| Stuffing Quantity | Without S/parts | 20/40ft | 95/191 | 50/110 | |

Notes:-

1. Capacities are based on the following conditions:

- Cooling
- Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Heating
- Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 - Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.: Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

1.2 60Hz

1.2.1 Cooling Only

Cooling Only (60Hz)

| Model | | | Unit | LRNV182BHA0 | LRNV212BHA0 | LRNV242BHA0 |
|---|--------------------------|------------|--|--|--|------------------------|
| Cooling Capacity | | | W | 5,300 | 6,200 | 7,000 |
| | | | kcal/h | 4,557 | 5,331 | 6,019 |
| | | | Btu/h | 18,084 | 21,155 | 23,885 |
| Heating Capacity | | | W | - | - | - |
| | | | kcal/h | - | - | - |
| | | | Btu/h | - | - | - |
| Casing | | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions (W*H*D) Body | | | mm | 882*260*450 | 882*260*450 | 882*260*450 |
| | | | inch | 34.7*10.2*17.7 | 34.7*10.2*17.7 | 34.7*10.2*17.7 |
| Coil | Rows x Columns x FPI | | | 3*10*21 | 3*10*21 | 3*10*21 |
| | Face Area | m² | | 0.15 | 0.15 | 0.15 |
| Fan | Type | | | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output | W | | 118 | 118 | 118 |
| | Running Current | A | | 1.22 | 1.22 | 1.22 |
| | Air Flow Rate(H/M/L) | cmm | | 15.3/13.6/10.3 | 15.8/13.9/10.7 | 16.0/14.1/11.1 |
| | | cfm | | 540/480/364 | 558/489/378 | 565/498/392 |
| | External Static Pressure | Pa | | 78.5 | 78.5 | 78.5 |
| | Drive | | | Direct | Direct | Direct |
| | Speed control | | | Phase Control | Phase Control | Phase Control |
| Temperature Control | | | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystrene | Foamed polystrene | Foamed polystrene | |
| Air Filter | | | - | - | - | |
| Safety Device | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | |
| Pipe Connections | Liquid Side | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) | Ø9.52(3/8) | |
| | Gas Side | mm(inch) | Ø15.88(5/8) | Ø15.88(5/8) | Ø15.88(5/8) | |
| | Drain Pipe(ID) | mm | 25.4 | 25.4 | 25.4 | |
| Net Weight | | kg(lbs) | 34(74.9) | 35(77.2) | 35(77.2) | |
| Noise Level (Sound Press,1.5m, H/M/L) | | dBA±3 | 39/36/34 | 39.5/37/34.5 | 40/38/35 | |
| Power Supply | | Ø / V / Hz | 1 / 220 / 60 | 1 / 220 / 60 | 1 / 220 / 60 | |
| Refrigerant Control | | | LEV | LEV | LEV | |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C | |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | |
| Stuffing Quantity | Without S/parts | 20/40ft | 120/252 | 120/252 | 120/252 | |

Notes:-

1. Capacities are based on the following conditions:

- Cooling • Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
- Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
- Interconnecting Piping Length 7.5m
- Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.: Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m³/min x 35.3

Cooling Only (60Hz)

| Model | | Unit | LRNV282BGA0 | LRNV362BGA0 | LRNV382BGA0 |
|---|--------------------------|--|--|--|----------------------------------|
| Cooling Capacity | | W | 8,200 | 10,600 | 11,100 |
| | | kcal/h | 7,052 | 9,116 | 9,544 |
| | | Btu/h | 27,995 | 36,168 | 37,875 |
| Heating Capacity | | W | - | - | - |
| | | kcal/h | - | - | - |
| | | Btu/h | - | - | - |
| Casing | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions (W*H*D) Body | | mm | 1182*298*450 | 1182*298*450 | 1182*298*450 |
| | | inch | 46.5*10.2*17.7 | 46.5*10.2*17.7 | 46.5*10.2*17.7 |
| Coil | Rows x Columns x FPI | | 3*12*21 | 3*12*21 | 3*12*21 |
| | Face Area | m² | 0.26 | 0.26 | 0.26 |
| Fan | Type | | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output | W | 177 | 177 | 272 |
| | Running Current | A | 1.68 | 1.68 | 1.68 |
| | Air Flow Rate(H/M/L) | cmm | 25.3/21.8/17.6 | 28.4/25.3/21.8 | 29.6/26.3/23.6 |
| | | cfm | 893/770/622 | 1003/893/770 | 1045/930/833 |
| | External Static Pressure | Pa | 78.5 | 78.5 | 78.5 |
| | Drive | | Direct | Direct | Direct |
| | Speed control | | Phase Control | Phase Control | Phase Control |
| Temperature Control | | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | |
| Sound Absorbing Thermal Insulation Material | | Foamed polystyrene | Foamed polystyrene | Foamed polystyrene | |
| Air Filter | | - | - | - | |
| Safety Device | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor |
| Pipe Connections | Liquid Side | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) | Ø9.52(3/8) |
| | Gas Side | mm(inch) | Ø15.88(5/8) | Ø19.05(3/4) | Ø19.05(3/4) |
| | Drain Pipe(ID) | mm | 25.4 | 25.4 | 25.4 |
| Net Weight | | kg(lbs) | 38(83.8) | 38(83.8) | 38(83.8) |
| Noise Level (Sound Press,1.5m, H/M/L) | | dBA±3 | 42/40/38 | 44/42/40 | 46/44/42 |
| Power Supply | | Ø / V / Hz | 1 / 220 / 60 | 1 / 220 / 60 | 1 / 220 / 60 |
| Refrigerant Control | | | LEV | LEV | LEV |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C |
| Stuffing Quantity | Without S/parts | 20/40ft | 95/191 | 95/191 | 95/191 |

Notes:-

- Capacities are based on the following conditions:
 - Cooling
 - Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Capacities are net capacities
- Due to our policy of innovation some specifications may be changed without notification
- L.E.V.: Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

Specifications

Cooling Only (60Hz)

| Model | | | Unit | LRNV422BGA0 | LRNV482BEA0 |
|---|--------------------------|------------|--|----------------|--|
| Cooling Capacity | | | W | 12,300 | 14,100 |
| | | | kcal/h | 10,578 | 12,126 |
| | | | Btu/h | 41,992 | 48,137 |
| Heating Capacity | | | W | - | - |
| | | | kcal/h | - | - |
| | | | Btu/h | - | - |
| Casing | | | Galvanized Steel Plate | | Galvanized Steel Plate |
| Dimensions (W*H*D) Body | | | mm | 1182*298*450 | 1230*370*680 |
| | | | inch | 46.5*10.2*17.7 | 48.4*14.6*26.8 |
| Coil | Rows x Columns x FPI | | 3*12*21 | | 3*14*17 |
| | Face Area | m² | 0.26 | | 0.43 |
| Fan | Type | | Sirocco Fan | | Sirocco Fan |
| | Motor Output | W | 272 | | 320 |
| | Running Current | A | 1.68 | | 4.00 |
| | Air Flow Rate(H/M/L) | cmm | 32.0/28.4/27.2 | | 40.0/36.2/32.6 |
| | | cfm | 1130/1003/961 | | 1412/1279/1151 |
| | External Static Pressure | Pa | 78.5 | | 98.1 |
| | Drive | | Direct | | Direct |
| | Speed control | | Phase Control | | Steps Control |
| Temperature Control | | | Microprocessor, Thermostat for cooling | | Microprocessor, Thermostat for cooling |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystyrene | | Foamed polystyrene |
| Air Filter | | | - | | - |
| Safety Device | | | Fuse, Thermal Fuse for Fan Motor | | Fuse, Thermal Fuse for Fan Motor |
| Pipe Connections | Liquid Side | mm(inch) | Ø9.52(3/8) | | Ø9.52(3/8) |
| | Gas Side | mm(inch) | Ø19.05(3/4) | | Ø19.05(3/4) |
| | Drain Pipe(ID) | mm | 25.4 | | 25.4 |
| Net Weight | | kg(lbs) | 38(83.8) | | 70(154.3) |
| Noise Level (Sound Press,1.5m, H/M/L) | | dBA±3 | 46/44/42 | | 48/46/44 |
| Power Supply | | Ø / V / Hz | 1 / 220 / 60 | | 1 / 220 / 60 |
| Refrigerant Control | | | LEV | | LEV |
| Power cable | | mm² | CV2.0 X 3C | | CV2.0 X 3C |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | | CVV-SB 1.25 X 2C |
| Stuffing Quantity | Without S/parts | 20/40ft | 95/191 | | 50/110 |

Notes:-

1. Capacities are based on the following conditions:

- Cooling • Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
- Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
- Interconnecting Piping Length 7.5m
- Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.: Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m³/min x 35.3

1.1.2 Heat Pump

Heat Pump (60Hz)

| Model | | Unit | LRNN182BHA0 | LRNN212BHA0 | LRNN242BHA0 |
|---|--------------------------|--|--|--|----------------------------------|
| Cooling Capacity | | W | 5,300 | 6,200 | 7,000 |
| | | kcal/h | 4,557 | 5,331 | 6,019 |
| | | Btu/h | 18,084 | 21,155 | 23,885 |
| Heating Capacity | | W | 5,963 | 6,975 | 7,875 |
| | | kcal/h | 5,127 | 5,997 | 6,771 |
| | | Btu/h | 20,345 | 23,800 | 26,870 |
| Casing | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions (W*H*D) Body | | mm | 882*260*450 | 882*260*450 | 882*260*450 |
| | | inch | 34.7*10.2*17.7 | 34.7*10.2*17.7 | 34.7*10.2*17.7 |
| Coil | Rows x Columns x FPI | | 3*10*21 | 3*10*21 | 3*10*21 |
| | Face Area | m ² | 0.15 | 0.15 | 0.15 |
| Fan | Type | | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output | W | 118 | 118 | 118 |
| | Running Current | A | 1.22 | 1.22 | 1.22 |
| | Air Flow Rate(H/M/L) | cmm | 15.3/13.6/10.3 | 15.8/13.9/10.7 | 16.0/14.1/11.1 |
| | | cfm | 540/480/364 | 558/489/378 | 565/498/392 |
| | External Static Pressure | Pa | 78.5 | 78.5 | 78.5 |
| | Drive | | Direct | Direct | Direct |
| | Speed control | | Phase Control | Phase Control | Phase Control |
| Temperature Control | | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | |
| Sound Absorbing Thermal Insulation Material | | Foamed polystrene | Foamed polystrene | Foamed polystrene | |
| Air Filter | | - | - | - | |
| Safety Device | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor |
| Pipe Connections | Liquid Side | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) | Ø9.52(3/8) |
| | Gas Side | mm(inch) | Ø15.88(5/8) | Ø15.88(5/8) | Ø15.88(5/8) |
| | Drain Pipe(ID) | mm | 25.4 | 25.4 | 25.4 |
| Net Weight | | kg(lbs) | 34(74.9) | 35(77.2) | 35(77.2) |
| Noise Level (Sound Press,1.5m, H/M/L) | | dBA±3 | 39/36/34 | 39.5/37/34.5 | 40/38/35 |
| Power Supply | | Ø / V / Hz | 1 / 220 / 60 | 1 / 220 / 60 | 1 / 220 / 60 |
| Refrigerant Control | | | LEV | LEV | LEV |
| Power cable | | mm ² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C |
| Transmission cable | | mm ² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C |
| Stuffing Quantity | Without S/parts | 20/40ft | 120/252 | 120/252 | 120/252 |

Notes:-

1. Capacities are based on the following conditions:

- Cooling
- Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Heating
- Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 - Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.: Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

Heat Pump (60Hz)

| Model | | | Unit | LRNN282BGA0 | LRNN362BGA0 | LRNN382BGA0 |
|---|--------------------------|------------|--|--|--|------------------------|
| Cooling Capacity | | | W | 8,200 | 10,600 | 11,100 |
| | | | kcal/h | 7,052 | 9,116 | 9,544 |
| | | | Btu/h | 27,995 | 36,168 | 37,875 |
| Heating Capacity | | | W | 9,225 | 11,925 | 12,487 |
| | | | kcal/h | 7,934 | 10,253 | 10,737 |
| | | | Btu/h | 31,494 | 40,689 | 42,607 |
| Casing | | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions (W*H*D) Body | | | mm | 1182*298*450 | 1182*298*450 | 1182*298*450 |
| | | | inch | 46.5*10.2*17.7 | 46.5*10.2*17.7 | 46.5*10.2*17.7 |
| Coil | Rows x Columns x FPI | | | 3*12*21 | 3*12*21 | 3*12*21 |
| | Face Area | m² | | 0.26 | 0.26 | 0.26 |
| Fan | Type | | | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output | W | | 177 | 177 | 272 |
| | Running Current | A | | 1.68 | 1.68 | 1.68 |
| | Air Flow Rate(H/M/L) | cmm | | 25.3/21.8/17.6 | 28.4/25.3/21.8 | 29.6/26.3/23.6 |
| | | cfm | | 893/770/622 | 1003/893/770 | 1045/930/833 |
| | External Static Pressure | Pa | | 78.5 | 78.5 | 78.5 |
| | Drive | | | Direct | Direct | Direct |
| | Speed control | | | Phase Control | Phase Control | Phase Control |
| Temperature Control | | | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystrene | Foamed polystrene | Foamed polystrene | |
| Air Filter | | | - | - | - | |
| Safety Device | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | |
| Pipe Connections | Liquid Side | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) | Ø9.52(3/8) | |
| | Gas Side | mm(inch) | Ø15.88(5/8) | Ø19.05(3/4) | Ø19.05(3/4) | |
| | Drain Pipe(ID) | mm | 25.4 | 25.4 | 25.4 | |
| Net Weight | | kg(lbs) | 38(83.8) | 38(83.8) | 38(83.8) | |
| Noise Level (Sound Press,1.5m, H/M/L) | | dBA±3 | 42/40/38 | 44/42/40 | 46/44/42 | |
| Power Supply | | Ø / V / Hz | 1 / 220 / 60 | 1 / 220 / 60 | 1 / 220 / 60 | |
| Refrigerant Control | | | LEV | LEV | LEV | |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C | |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | |
| Stuffing Quantity | Without S/parts | 20/40ft | 95/191 | 95/191 | 95/191 | |

Notes:-

1. Capacities are based on the following conditions:

- Cooling
 - Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Heating
 - Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 - Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.: Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m³/min x 35.3

Heat Pump (60Hz)

| Model | | | Unit | LRNN422BGA0 | LRNN482BEA0 |
|---|--------------------------|----------------|-----------------|--|--|
| Cooling Capacity | | | W | 12,300 | 14,100 |
| | | | kcal/h | 10,578 | 12,126 |
| | | | Btu/h | 41,992 | 48,137 |
| Heating Capacity | | | W | 13,838 | 15,863 |
| | | | kcal/h | 11,040 | 13,156 |
| | | | Btu/h | 43,829 | 54,156 |
| Casing | | | | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions (W*H*D) Body | | | mm | 1182*298*450 | 1230*370*680 |
| | | | inch | 46.5*10.2*17.7 | 48.4*14.6*26.8 |
| Coil | Rows x Columns x FPI | | | 3*12*21 | 3*14*17 |
| | Face Area | m ² | | 0.26 | 0.43 |
| Fan | Type | | | Sirocco Fan | Sirocco Fan |
| | Motor Output | W | | 272 | 320 |
| | Running Current | A | | 1.68 | 4.00 |
| | Air Flow Rate(H/M/L) | cmm | | 32.0/28.4/27.2 | 40.0/36.2/32.6 |
| | | cfm | | 1130/1003/961 | 1412/1279/1151 |
| | External Static Pressure | Pa | | 78.5 | 98.1 |
| | Drive | | | Direct | Direct |
| Speed control | | | | Phase Control | Steps Control |
| Temperature Control | | | | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating |
| Sound Absorbing Thermal Insulation Material | | | | Foamed polystyrene | Foamed polystyrene |
| Air Filter | | | | - | - |
| Safety Device | | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor |
| Pipe Connections | Liquid Side | mm(inch) | | Ø9.52(3/8) | Ø9.52(3/8) |
| | Gas Side | mm(inch) | | Ø19.05(3/4) | Ø19.05(3/4) |
| | Drain Pipe(ID) | mm | | 25.4 | 25.4 |
| Net Weight | | | kg(lbs) | 38(83.8) | 70(154.3) |
| Noise Level (Sound Press, 1.5m, H/M/L) | | | dBA±3 | 46/44/42 | 48/46/44 |
| Power Supply | | | Ø / V / Hz | 1 / 220 / 60 | 1 / 220 / 60 |
| Refrigerant Control | | | | LEV | LEV |
| Power cable | | | mm ² | CV2.0 X 3C | CV2.0 X 3C |
| Transmission cable | | | mm ² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C |
| Stuffing Quantity | Without S/parts | 20/40ft | | 95/191 | 50/110 |

Notes:-

1. Capacities are based on the following conditions:

- Cooling
 - Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Heating
 - Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 - Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.: Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m³/min x 35.3

2. Functions

Indoor Unit

Operation ON/OFF by Remote controller

Sensing the Room Temperature

- Room temperature sensor. (Thermistor)

Room temperature control

- Maintains the room temperature in accordance with the Setting Temperature.

Starting Current Control

- Indoor fan is delayed for 5 seconds at the starting.

Time Delay Safety Control

- Restarting is inhibited for approx. 3 minutes.

Indoor Fan Speed Control

- High, Med, Low

Soft Dry Operation Mode

- Intermittent operation of fan at low speed.

Auto Restart

- Although the air-conditioner is turned off by a power failure, it is restarted automatically previous operation mode after power supply.

Deice (defrost) control (Heating)

- Both the indoor and outdoor fan stops during defrosting.
- Hot start after defrost ends.

Hot-start Control (Heating)

- The indoor fan does not rotate until the evaporator piping temperature reaches 25°C.

High head height Drain pump

- A standard drain-head height of up to 700mm is possible.

Central Control(Optional)

- It is operating individually or totally by central control function.

Defrost(Deice) control (Heating)

- Both the indoor and outdoor fan stops during defrosting.

Hot-start Control (Heating)

- The indoor fan stops until the evaporator pipe temperature will be reached at 28°C.

3. Operation Details

(1) The function of main control

■ Time Delay safety Control

- 30sec... The 4-way valve is ceased for 30sec. to prevent the refrigerant-gas abnormal noise when the Heating operation is OFF or switched to the other operation mode while compress is off.
While compressor is running, it takes 3~5 seconds to switch to another mode.

■ Soft-Dry Operation

- The indoor fan speed is automatically set to the low, so the shift of the indoor fan speed is impossible because of already being set to the best speed for Dry Operation by microcontroller control.

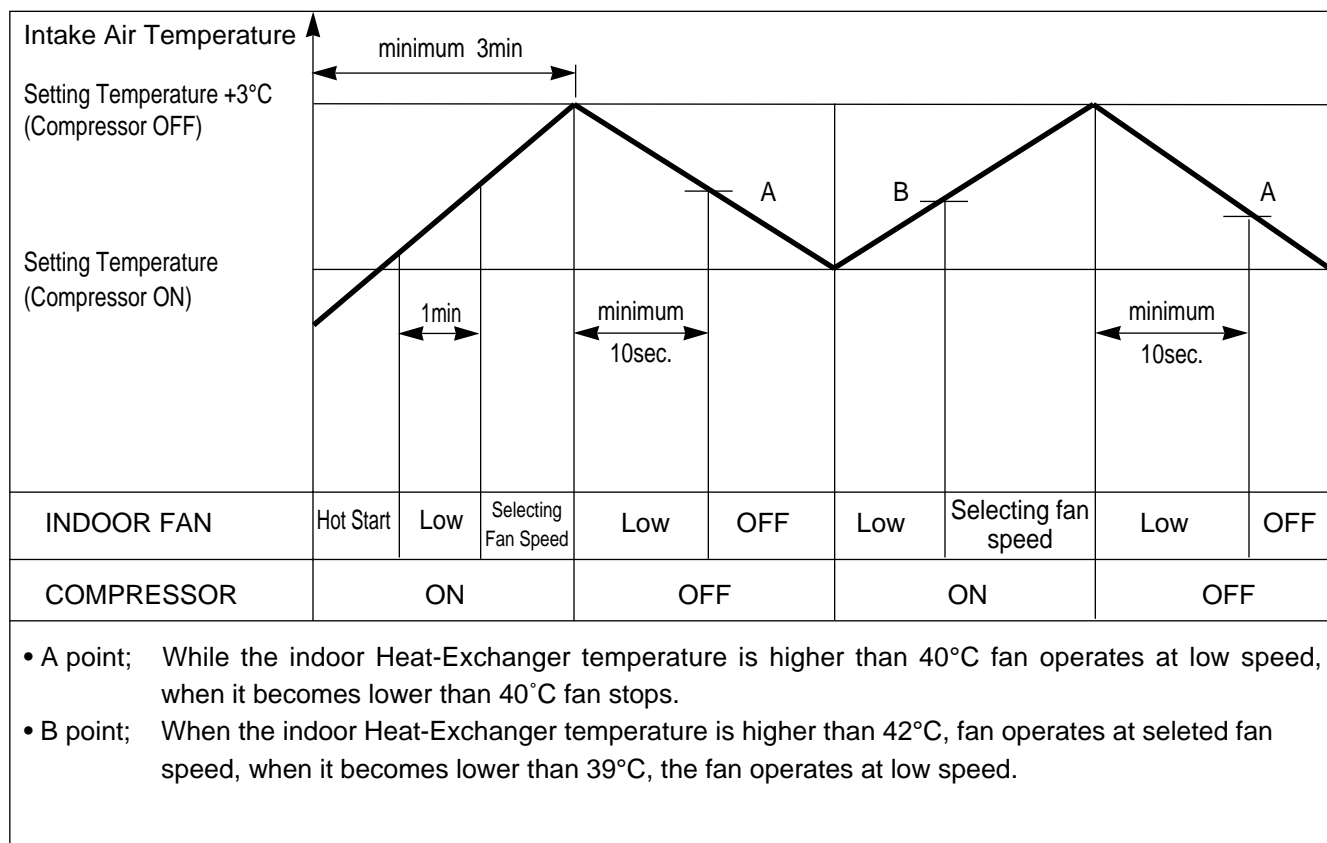
■ Cooling Mode Operation

- When selecting the Cooling(※) Mode Operation, the unit will operate according to the setting by the remote controller and the operation diagram is as following.

| | | | | | |
|---------------------------------------|---------------------|-----|---------------------|-----|---------------------|
| Intake Air Temperature | | | | | |
| SET TEMPERATURE +0.5°C (COMP. ON) | | | | | |
| SET TEMPERATURE -0.5°C (COMP. OFF) | | | | | |
| INDOOR FAN | Selecting fan speed | Low | Selecting fan speed | Low | Selecting fan speed |
| COMPRESSOR | ON | OFF | ON | OFF | ON |

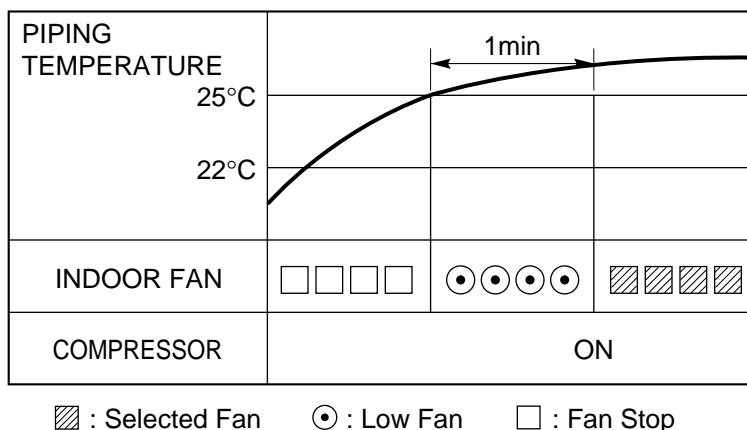
■ Heating Mode Operation

The unit will operate according to the setting by the remote controller and the operation diagram is shown as following.



■ Hot-Start Control

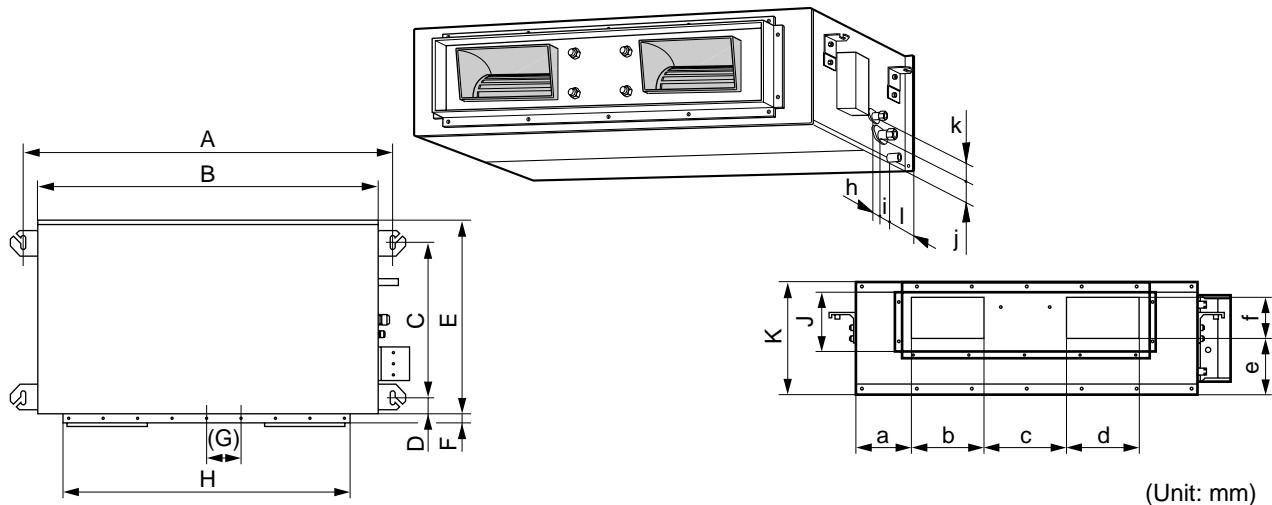
- The indoor fan does not rotate until the evaporator piping temperature reaches 25°C.
- The operation diagram is as following.



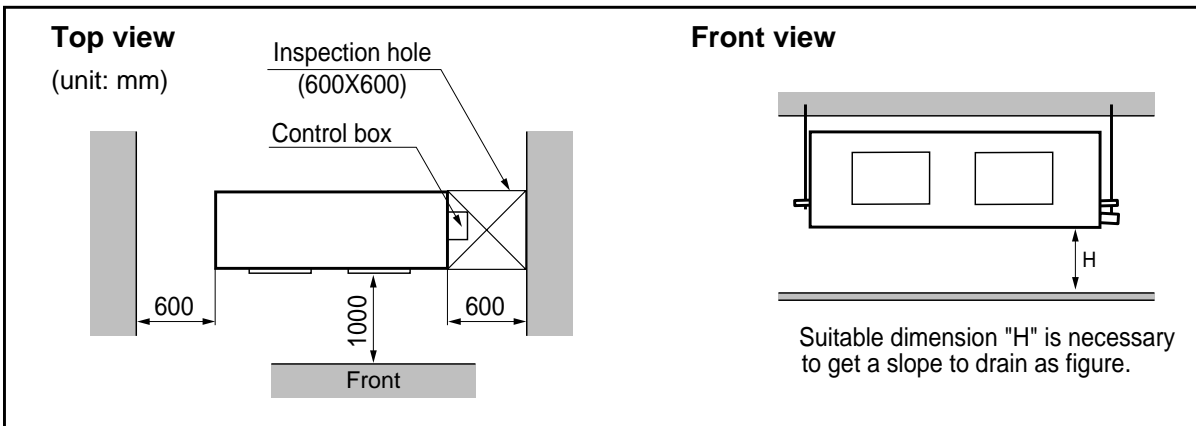
4. Dimensional Drawings

LRNV186BHA0/LRNN186BHA0/LRNV182BHA0/LRNN182BHA0
 LRNV216BHA0/LRNN216BHA0/LRNV212BHA0/LRNN212BHA0
 LRNV246BHA0/LRNN246BHA0/LRNV242BHA0/LRNN242BHA0
 LRNV286BGA0/LRNN286BGA0/LRNV282BGA0/LRNN282BGA0

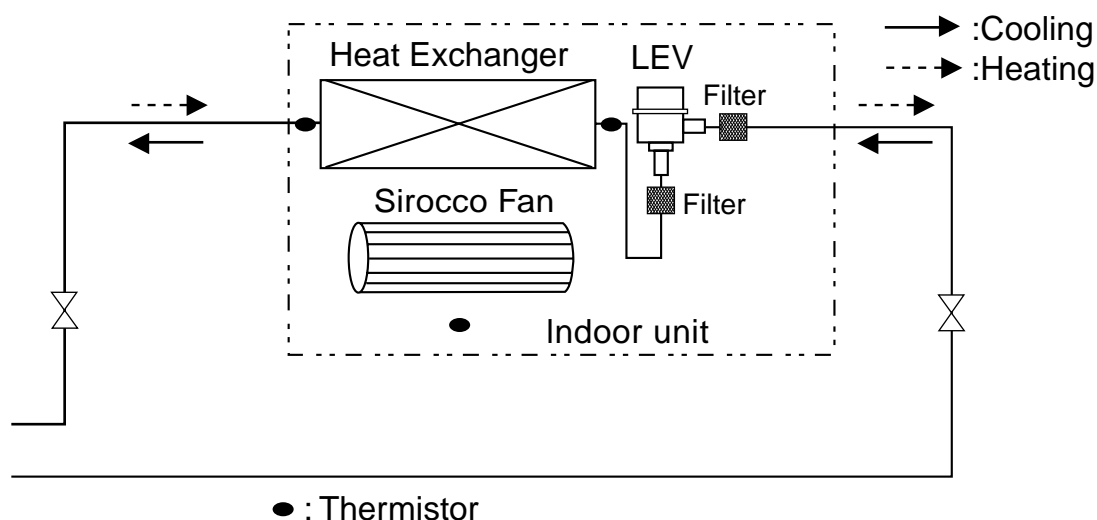
LRNV366BGA0/LRNN366BGA0/LRNV362BGA0/LRNN362BGA0
 LRNV386BGA0/LRNN386BGA0/LRNV382BGA0/LRNN382BGA0
 LRNV426BGA0/LRNN426BGA0/LRNV422BGA0/LRNN422BGA0
 LRNV486BEA0/LRNN486BEA0/LRNV482BEA0/LRNN482BEA0



| Model | A | B | C | D | E | F | (G) | H | J | K | a | b | c | d | e | f | h | i | j | k | l |
|----------------|------|------|-------|------|-----|----|-----|------|-----|-----|-------|-----|-------|-----|-----|-----|----|-----|----|----|-------|
| 18/21/24 BH | 932 | 882 | 355 | 45.5 | 450 | 30 | 87 | 750 | 163 | 260 | 61.5 | 243 | 212.3 | 243 | 110 | 130 | 52 | 66 | 81 | 30 | 158.5 |
| 28/36/38/42 BG | 1232 | 1182 | 355 | 45.5 | 450 | 30 | 87 | 830 | 186 | 298 | 229.5 | 243 | 232 | 243 | 116 | 160 | 53 | 59 | 81 | 19 | 158.5 |
| 48 BE | 1292 | 1230 | 570.5 | 54 | 680 | 30 | 120 | 1006 | 294 | 370 | 253.5 | 253 | 217 | 253 | 152 | 186 | 42 | 143 | 82 | 50 | 172 |



5. Piping Diagrams



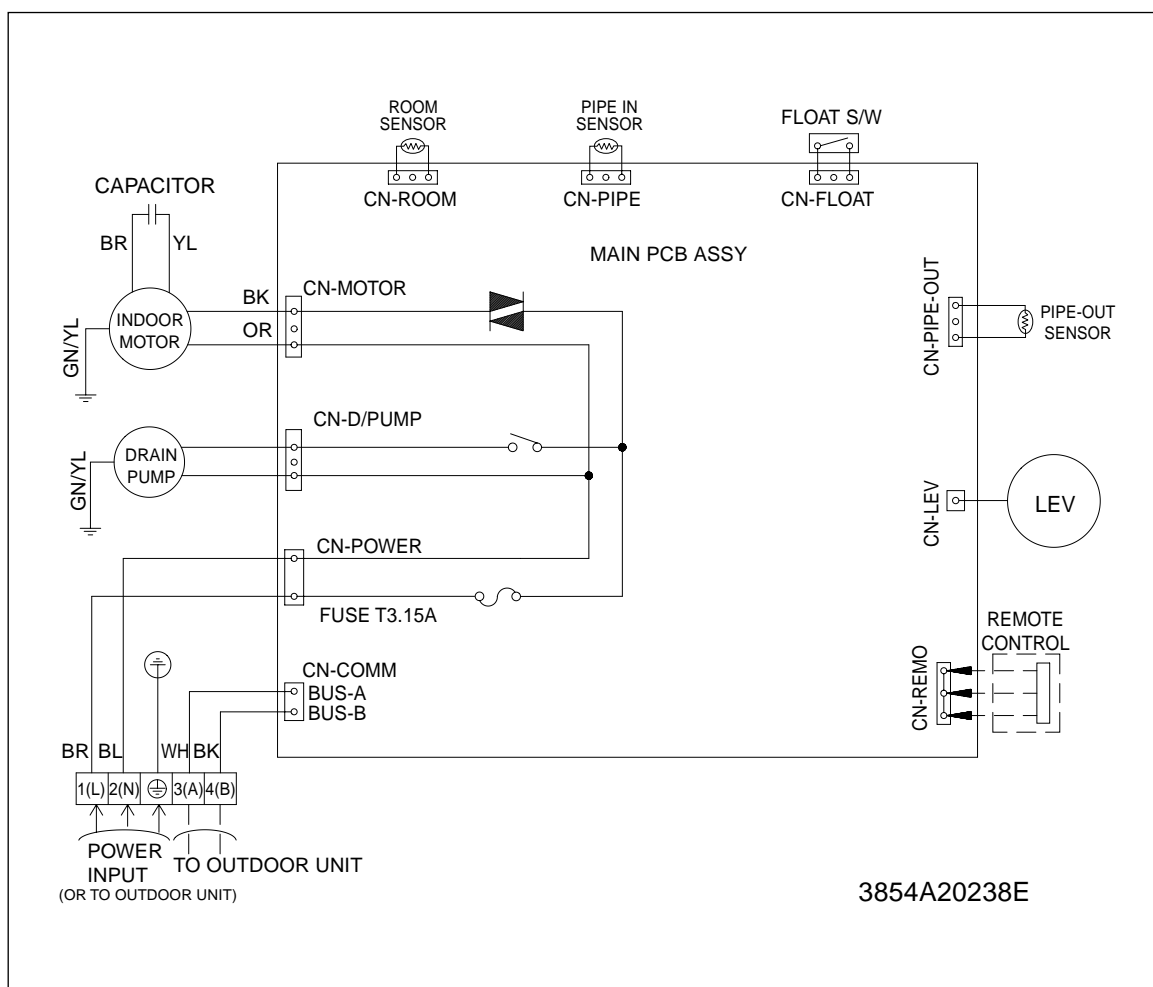
Refrigerant pipe connection port diameter

[unit: mm(inch)]

| MODEL | GAS | LIQUID |
|---|-------------|------------|
| LRNV186BHA0/LRNN186BHA0/LRNV182BHA0/LRNN182BHA0 | Ø15.88(5/8) | Ø9.52(3/8) |
| LRNV216BHA0/LRNN216BHA0/LRNV212BHA0/LRNN212BHA0 | Ø15.88(5/8) | Ø9.52(3/8) |
| LRNV246BHA0/LRNN246BHA0/LRNV242BHA0/LRNN242BHA0 | Ø15.88(5/8) | Ø9.52(3/8) |
| LRNV286BGA0/LRNN286BGA0/LRNV282BGA0/LRNN282BGA0 | Ø15.88(5/8) | Ø9.52(3/8) |
| LRNV366BGA0/LRNN366BGA0/LRNV362BGA0/LRNN362BGA0 | Ø19.05(3/4) | Ø9.52(3/8) |
| LRNV386BGA0/LRNN386BGA0/LRNV382BGA0/LRNN382BGA0 | Ø19.05(3/4) | Ø9.52(3/8) |
| LRNV426BGA0/LRNN426BGA0/LRNV422BGA0/LRNN422BGA0 | Ø19.05(3/4) | Ø9.52(3/8) |
| LRNV486BEA0/LRNN486BEA0/LRNV482BEA0/LRNN482BEA0 | Ø19.05(3/4) | Ø9.52(3/8) |

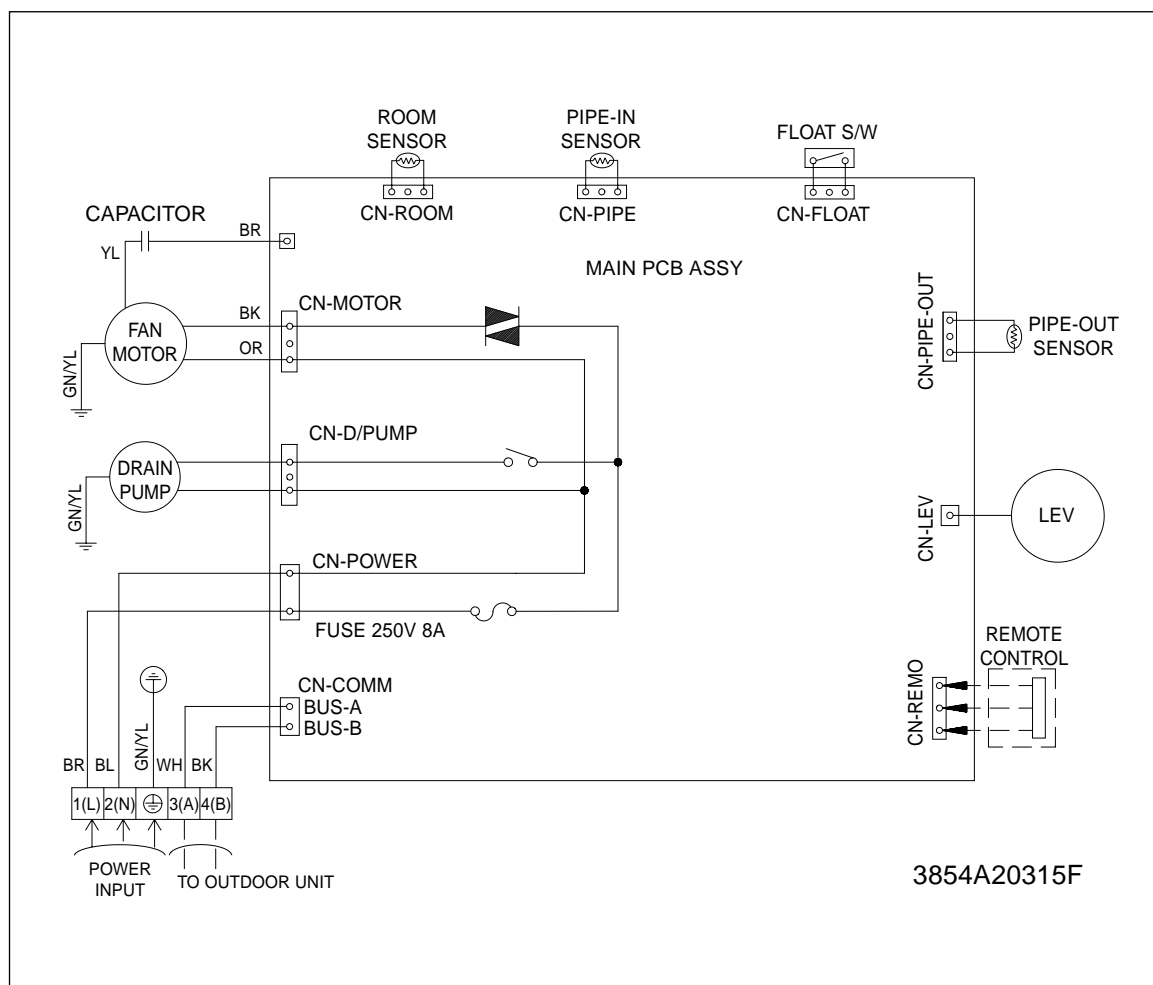
6. Wiring Diagrams

BH Chassis



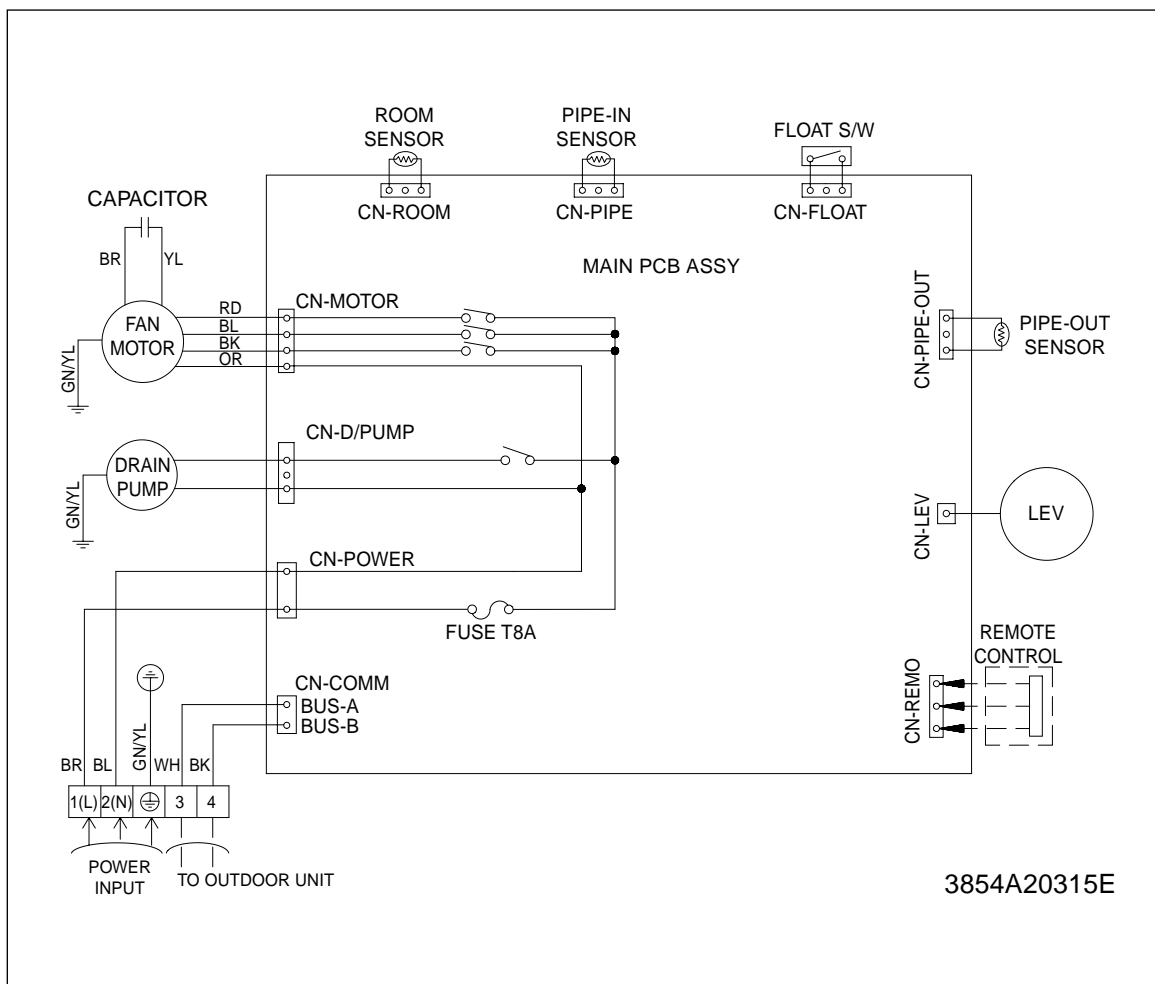
| CONNECTOR NUMBER | SPEC | COLOR | DESCRIPTION |
|------------------|-----------------------|--------|---|
| CN-POWER | AC POWER SUPPLY | WHITE | AC POWER LINE INPUT FOR INDOOR CONTROLLER |
| CN-MOTOR2 | AC FAN MOTOR OUTPUT | YELLOW | MOTOR OUTPUT OF PHASE CONTROL |
| CN-D/PUMP | DRAIN PUMP OUTPUT | WHITE | AC OUTPUT FOR DRAIN PUMP |
| CN-COMM | COMMUNICATION | WHITE | CONNECTION BETWEEN INDOOR AND OUTDOOR |
| CN-LEV | LEV OUTPUT | WHITE | LEV CONTROL OUTPUT |
| CN-FLOAT | FLOAT SWITCH INPUT | BLUE | FLOAT SWITCH SENSING |
| CN-PIPE | PIPE SENSOR | WHITE | PIPE THERMISTOR |
| CN-PIPE/O | DISCHARGE PIPE SENSOR | RED | DISCHARGE PIPE THERMISTOR |
| CN-ROOM | ROOM SENSOR | YELLOW | ROOM THERMISTOR |
| CN-REMO | REMOTE CONTROLLER | WHITE | REMOTE CONTROL LINE |

BG Chassis



| CONNECTOR NUMBER | SPEC | COLOR | DESCRIPTION |
|------------------|-------------------------|--------|---|
| CN-POWER | AC POWER SUPPLY | WHITE | AC POWER LINE INPUT FOR INDOOR CONTROLLER |
| CN-MOTOR2 | AC FAN MOTOR OUTPUT | YELLOW | MOTOR OUTPUT OF PHASE CONTROL |
| CN-D/PUMP | DRAIN PUMP OUTPUT | WHITE | AC OUTPUT FOR DRAIN PUMP |
| CN-COMM | COMMUNICATION | WHITE | CONNECTION BETWEEN INDOOR AND OUTDOOR |
| CN-LEV | LEV OUTPUT | WHITE | LEV CONTROL OUTPUT |
| CN-FLOAT | FLOAT SWITCH INPUT | BLUE | FLOAT SWITCH SENSING |
| CN-PIPE | PIPE SENSOR | WHITE | PIPE THERMISTOR |
| CN-PIPE/O | DISCHARGE PIPE SENSOR | RED | DISCHARGE PIPE THERMISTOR |
| CN-ROOM | ROOM SENSOR | YELLOW | ROOM THERMISTOR |
| CN-REMO | REMOTE CONTROLLER | WHITE | REMOTE CONTROL LINE |
| CN-INFANSUB | STARTING SIGNAL CONTROL | WHITE | STARTING SIGNAL CONTROL |

BE Chassis



| CONNECTOR NUMBER | SPEC | COLOR | DESCRIPTION |
|------------------|-----------------------|--------|---|
| CN-POWER | AC POWER SUPPLY | WHITE | AC POWER LINE INPUT FOR INDOOR CONTROLLER |
| CN-MOTOR | AC FAN MOTOR OUTPUT | WHITE | MOTOR OUTPUT OF PHASE CONTROL |
| CN-D/PUMP | DRAIN PUMP OUTPUT | WHITE | AC OUTPUT FOR DRAIN PUMP |
| CN-COMM | COMMUNICATION | WHITE | CONNECTION BETWEEN INDOOR AND OUTDOOR |
| CN-LEV | LEV OUTPUT | WHITE | LEV CONTROL OUTPUT |
| CN-FLOAT | FLOAT SWITCH INPUT | BLUE | FLOAT SWITCH SENSING |
| CN-PIPE | PIPE SENSOR | WHITE | PIPE THERMISTOR |
| CN-PIPE/O | DISCHARGE PIPE SENSOR | RED | DISCHARGE PIPE THERMISTOR |
| CN-ROOM | ROOM SENSOR | YELLOW | ROOM THERMISTOR |
| CN-REMO | REMOTE CONTROLLER | WHITE | REMOTE CONTROL LINE |

Ceiling Concealed Duct Type (Low static)

| | |
|--------------------------------------|-----------|
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| 6. Wiring Diagrams | 85 |

1. Specifications

1.1 50Hz

1.1.1 Cooling Only

Cooling Only (50Hz)

| Model | | | Unit | LRNV076BTG(Q)0 | LRNV096BTG(Q)0 | LRNV126BTG(Q)0 |
|---|--------------------------|------------|--|--|--|------------------------|
| Cooling Capacity | | | W | 2,100 | 2,600 | 3,500 |
| | | | kcal/h | 1,806 | 2,235 | 3,009 |
| | | | Btu/h | 7,165 | 8,871 | 11,942 |
| Heating Capacity | | | W | - | - | - |
| | | | kcal/h | - | - | - |
| | | | Btu/h | - | - | - |
| Casing | | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions (W*H*D) Body | | | mm | 708*230*537 | 708*230*537 | 708*230*537 |
| | | | inch | 28*9.1*21.2 | 28*9.1*21.2 | 28*9.1*21.2 |
| Coil | Rows x Columns x FPI | | | 2*12*18 | 2*12*18 | 2*12*18 |
| | Face Area | m² | | 0.12 | 0.12 | 0.12 |
| Fan | Type | | | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output | W | | 40 | 40 | 40 |
| | Running Current | A | | 0.30 | 0.30 | 0.30 |
| | Air Flow Rate(H/M/L) | cmm | | 8.7/7.5/6.2 | 9.5/ 8.7 / 7.5 | 10.6/ 9.5 / 8.7 |
| | | cfm | | 307/265/219 | 336/307/265 | 375/336/307 |
| | External Static Pressure | Pa | | 19.6 | 19.6 | 19.6 |
| | Drive | | | Direct | Direct | Direct |
| | Speed control | | | Phase Control | Phase Control | Phase Control |
| Temperature Control | | | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystrene | Foamed polystrene | Foamed polystrene | |
| Air Filter | | | - | - | - | |
| Safety Device | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | |
| Pipe Connections | Liquid Side | mm(inch) | Ø6.35(1/4) | Ø6.35(1/4) | Ø6.35(1/4) | |
| | Gas Side | mm(inch) | Ø12.7(1/2) | Ø12.7(1/2) | Ø12.7(1/2) | |
| | Drain Pipe(ID) | mm | 25.4 | 25.4 | 25.4 | |
| Net Weight | | kg(lbs) | 25(55.1) | 25(55.1) | 25(55.1) | |
| Noise Level (Sound Press,1.5m, H/M/L) | | dBA±3 | 35/33/31 | 36/34/32 | 37/35/33 | |
| Power Supply | | Ø / V / Hz | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 | |
| Refrigerant Control | | | LEV | LEV | LEV | |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C | |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | |
| Stuffing Quantity | Without S/parts | 20/40ft | 172/356 | 172/356 | 172/356 | |

Notes:-

1. Capacities are based on the following conditions:

- Cooling • Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
- Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
- Interconnecting Piping Length 7.5m
- Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.: Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m³/min x 35.3

1.1.2 Heat Pump

Heat Pump (50Hz)

| Model | | | Unit | LRNN076BTG(Q)0 | LRNN096BTG(Q)0 | LRNN126BTG(Q)0 |
|---|--------------------------|-----------------|--|--|--|------------------------|
| Cooling Capacity | | | W | 2,100 | 2,600 | 3,500 |
| | | | kcal/h | 1,806 | 2,235 | 3,009 |
| | | | Btu/h | 7,165 | 8,871 | 11,942 |
| Heating Capacity | | | W | 2,363 | 2,925 | 3,938 |
| | | | kcal/h | 2,031 | 2,515 | 3,385 |
| | | | Btu/h | 8,061 | 9,980 | 13,435 |
| Casing | | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions (W*H*D) Body | | | mm | 708*230*537 | 708*230*537 | 708*230*537 |
| | | | inch | 28*9.1*21.2 | 28*9.1*21.2 | 28*9.1*21.2 |
| Coil | Rows x Columns x FPI | | | 2*12*18 | 2*12*18 | 2*12*18 |
| | Face Area | | m ² | 0.12 | 0.12 | 0.12 |
| Fan | Type | | | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output | | W | 40 | 40 | 40 |
| | Running Current | | A | 0.30 | 0.30 | 0.30 |
| | Air Flow Rate(H/M/L) | | cmm | 8.7/7.5/6.2 | 9.5/ 8.7 / 7.5 | 10.6/ 9.5 / 8.7 |
| | | | cfm | 307/265/219 | 336/307/265 | 375/336/307 |
| | External Static Pressure | | Pa | 19.6 | 19.6 | 19.6 |
| | Drive | | | Direct | Direct | Direct |
| | Speed control | | | Phase Control | Phase Control | Phase Control |
| Temperature Control | | | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystrene | Foamed polystrene | Foamed polystrene | |
| Air Filter | | | - | - | - | |
| Safety Device | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | |
| Pipe Connections | Liquid Side | mm(inch) | Ø6.35(1/4) | Ø6.35(1/4) | Ø6.35(1/4) | |
| | Gas Side | mm(inch) | Ø12.7(1/2) | Ø12.7(1/2) | Ø12.7(1/2) | |
| | Drain Pipe(ID) | mm | 25.4 | 25.4 | 25.4 | |
| Net Weight | | kg(lbs) | 25(55.1) | 25(55.1) | 25(55.1) | |
| Noise Level (Sound Press,1.5m, H/M/L) | | dBA±3 | 35/33/31 | 36/34/32 | 37/35/33 | |
| Power Supply | | Ø / V / Hz | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 | |
| Refrigerant Control | | | LEV | LEV | LEV | |
| Power cable | | mm ² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C | |
| Transmission cable | | mm ² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | |
| Stuffing Quantity | Without S/parts | 20/40ft | 172/356 | 172/356 | 172/356 | |

Notes:-

1. Capacities are based on the following conditions:

- Cooling
 - Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Heating
 - Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 - Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.: Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m³/min x 35.3

1.2 60Hz

1.2.1 Cooling Only

Cooling Only (60Hz)

| Model | | Unit | LRNV072BTG(Q)0 | LRNV092BTG(Q)0 | LRNV122BTG(Q)0 |
|---|--------------------------|-----------------|--|--|--|
| Cooling Capacity | | W | 2,100 | 2,600 | 3,500 |
| | | kcal/h | 1,806 | 2,235 | 3,009 |
| | | Btu/h | 7,165 | 8,871 | 11,942 |
| Heating Capacity | | W | - | - | - |
| | | kcal/h | - | - | - |
| | | Btu/h | - | - | - |
| Casing | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions (W*H*D) Body | | mm | 708*230*537 | 708*230*537 | 708*230*537 |
| | | inch | 28*9.1*21.2 | 28*9.1*21.2 | 28*9.1*21.2 |
| Coil | Rows x Columns x FPI | | 2*12*18 | 2*12*18 | 2*12*18 |
| | Face Area | m ² | 0.12 | 0.12 | 0.12 |
| Fan | Type | | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output | W | 40 | 40 | 40 |
| | Running Current | A | 0.30 | 0.30 | 0.30 |
| | Air Flow Rate(H/M/L) | cmm | 8.7/7.5/6.2 | 9.5/ 8.7 / 7.5 | 10.6/ 9.5 / 8.7 |
| | | cfm | 307/265/219 | 336/307/265 | 375/336/307 |
| | External Static Pressure | Pa | 19.6 | 19.6 | 19.6 |
| | Drive | | Direct | Direct | Direct |
| | Speed control | | Phase Control | Phase Control | Phase Control |
| Temperature Control | | | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystyrene | Foamed polystyrene | Foamed polystyrene |
| Air Filter | | | - | - | - |
| Safety Device | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor |
| Pipe Connections | Liquid Side | mm(inch) | Ø6.35(1/4) | Ø6.35(1/4) | Ø6.35(1/4) |
| | Gas Side | mm(inch) | Ø12.7(1/2) | Ø12.7(1/2) | Ø12.7(1/2) |
| | Drain Pipe(ID) | mm | 25.4 | 25.4 | 25.4 |
| Net Weight | | kg(lbs) | 25(55.1) | 25(55.1) | 25(55.1) |
| Noise Level (Sound Press,1.5m, H/M/L) | | dBA±3 | 35/33/31 | 36/34/32 | 37/35/33 |
| Power Supply | | Ø / V / Hz | 1 / 220 / 60 | 1 / 220 / 60 | 1 / 220 / 60 |
| Refrigerant Control | | | LEV | LEV | LEV |
| Power cable | | mm ² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C |
| Transmission cable | | mm ² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C |
| Stuffing Quantity | Without S/parts | 20/40ft | 172/356 | 172/356 | 172/356 |

Notes:-

1. Capacities are based on the following conditions:

- Cooling • Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
- Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
- Interconnecting Piping Length 7.5m
- Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.: Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m³/min x 35.3

1.2.2 Heat Pump

Heat Pump (60Hz)

| Model | | Unit | LRNN072BTG(Q)0 | LRNN092BTG(Q)0 | LRNN122BTG(Q)0 |
|---|--------------------------|-----------------|--|--|--|
| Cooling Capacity | | W | 2,100 | 2,600 | 3,500 |
| | | kcal/h | 1,806 | 2,235 | 3,009 |
| | | Btu/h | 7,165 | 8,871 | 11,942 |
| Heating Capacity | | W | 2,363 | 2,925 | 3,938 |
| | | kcal/h | 2,031 | 2,515 | 3,385 |
| | | Btu/h | 8,061 | 9,980 | 13,435 |
| Casing | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions (W*H*D) Body | | mm | 708*230*537 | 708*230*537 | 708*230*537 |
| | | inch | 28*9.1*21.2 | 28*9.1*21.2 | 28*9.1*21.2 |
| Coil | Rows x Columns x FPI | | 2*12*18 | 2*12*18 | 2*12*18 |
| | Face Area | m ² | 0.12 | 0.12 | 0.12 |
| Fan | Type | | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output | W | 40 | 40 | 40 |
| | Running Current | A | 0.30 | 0.30 | 0.30 |
| | Air Flow Rate(H/M/L) | cmm | 8.7/7.5/6.2 | 9.5/ 8.7 / 7.5 | 10.6/ 9.5 / 8.7 |
| | | cfm | 307/265/219 | 336/307/265 | 375/336/307 |
| | External Static Pressure | Pa | 19.6 | 19.6 | 19.6 |
| | Drive | | Direct | Direct | Direct |
| | Speed control | | Phase Control | Phase Control | Phase Control |
| Temperature Control | | | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystyrene | Foamed polystyrene | Foamed polystyrene |
| Air Filter | | | - | - | - |
| Safety Device | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor |
| Pipe Connections | Liquid Side | mm(inch) | Ø6.35(1/4) | Ø6.35(1/4) | Ø6.35(1/4) |
| | Gas Side | mm(inch) | Ø12.7(1/2) | Ø12.7(1/2) | Ø12.7(1/2) |
| | Drain Pipe(ID) | mm | 25.4 | 25.4 | 25.4 |
| Net Weight | | kg(lbs) | 25(55.1) | 25(55.1) | 25(55.1) |
| Noise Level (Sound Press, 1.5m, H/M/L) | | dBA±3 | 35/33/31 | 36/34/32 | 37/35/33 |
| Power Supply | | Ø / V / Hz | 1 / 220 / 60 | 1 / 220 / 60 | 1 / 220 / 60 |
| Refrigerant Control | | | LEV | LEV | LEV |
| Power cable | | mm ² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C |
| Transmission cable | | mm ² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C |
| Stuffing Quantity | Without S/parts | 20/40ft | 172/356 | 172/356 | 172/356 |

Notes:-

1. Capacities are based on the following conditions:

- Cooling
- Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Heating
- Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 - Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.: Linear Expansion Valve

2. Functions

Indoor Unit

Operation ON/OFF by Remote controller

Sensing the Room Temperature

- Room temperature sensor. (Thermistor)

Room temperature control

- Maintains the room temperature in accordance with the Setting Temperature.

Starting Current Control

- Indoor fan is delayed for 5 seconds at the starting.

Time Delay Safety Control

- Restarting is inhibited for approx. 3 minutes.

Indoor Fan Speed Control

- High, Med, Low

Soft Dry Operation Mode

- Intermittent operation of fan at low speed.

Auto Restart

- Although the air-conditioner is turned off by a power failure, it is restarted automatically previous operation mode after power supply.

Deice (defrost) control (Heating)

- Both the indoor and outdoor fan stops during defrosting.
- Hot start after defrost ends.

Hot-start Control (Heating)

- The indoor fan does not rotate until the evaporator piping temperature reaches 25°C.

High head height Drain pump

- A standard drain-head height of up to 700mm is possible.

Central Control(Optional)

- It is operating individually or totally by central control function.

3. Operation Details

(1) The function of main control

■ Time Delay safety Control

- 30sec... The 4-way valve is ceased for 30sec. to prevent the refrigerant-gas abnormal noise when the Heating operation is OFF or switched to the other operation mode while compress is off.
While compressor is running, it takes 3~5 seconds to switch to another mode.

■ Soft-Dry Operation

- The indoor fan speed is automatically set to the low, so the shift of the indoor fan speed is impossible because of already being set to the best speed for Dry Operation by microcontroller control.

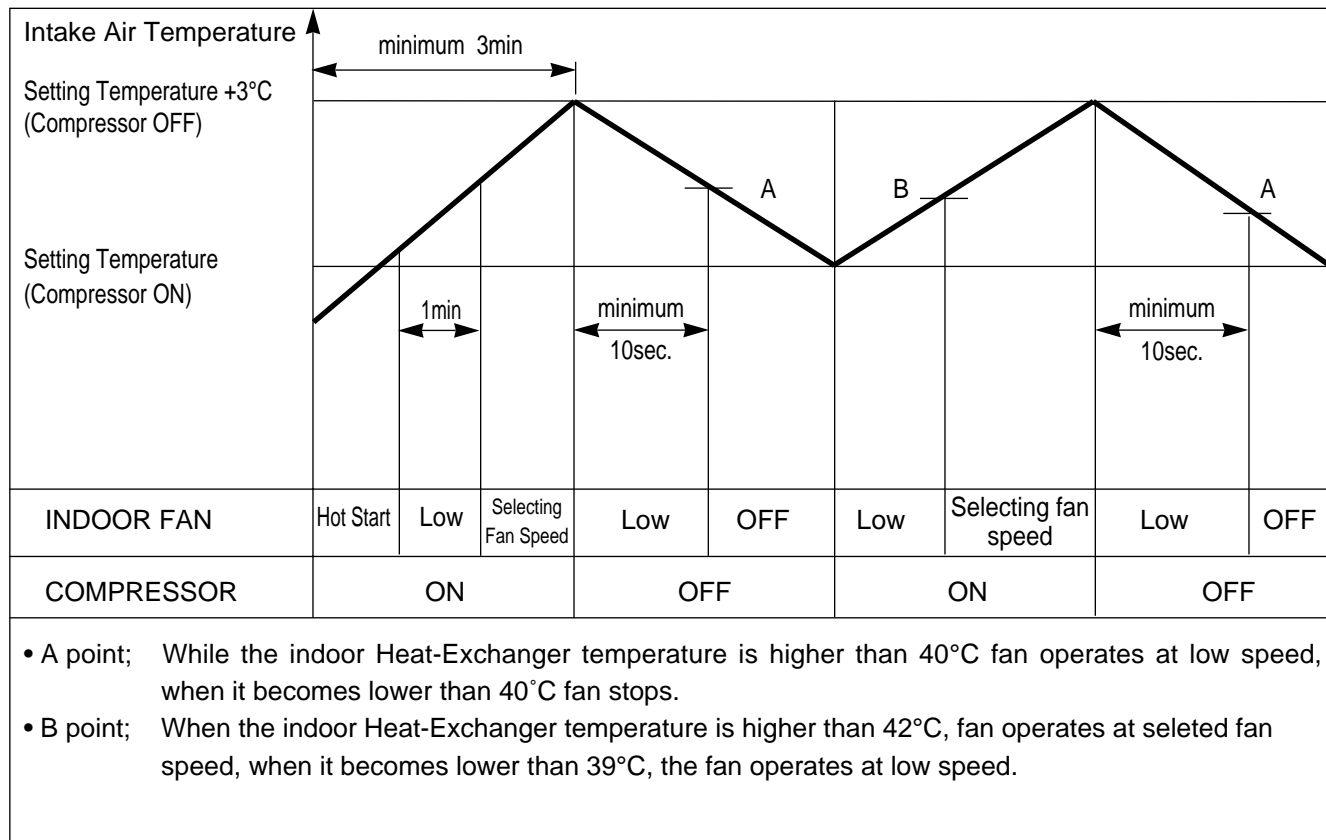
■ Cooling Mode Operation

- When selecting the Cooling(※) Mode Operation, the unit will operate according to the setting by the remote controller and the operation diagram is as following.

| | | | | | |
|---------------------------------------|---------------------|-----|---------------------|-----|---------------------|
| Intake Air Temperature | | | | | |
| SET TEMPERATURE +0.5°C (COMP. ON) | | | | | |
| SET TEMPERATURE -0.5°C (COMP. OFF) | | | | | |
| INDOOR FAN | Selecting fan speed | Low | Selecting fan speed | Low | Selecting fan speed |
| COMPRESSOR | ON | OFF | ON | OFF | ON |

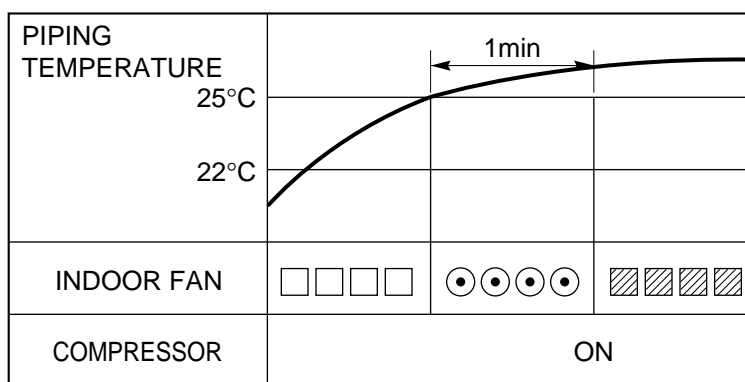
■ Heating Mode Operation

The unit will operate according to the setting by the remote controller and the operation diagram is shown as following.



■ Hot-Start Control

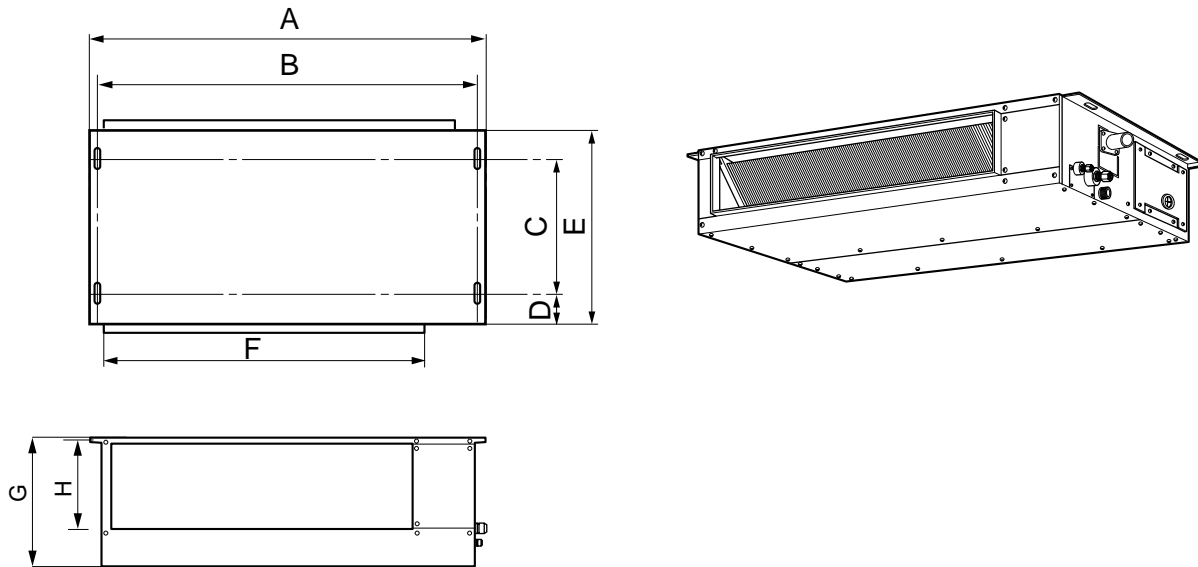
- The indoor fan does not rotate until the evaporator piping temperature reaches 25°C.
- The operation diagram is as following.



▨ : Selected Fan ⊙ : Low Fan □ : Fan Stop

4. Dimensional Drawings

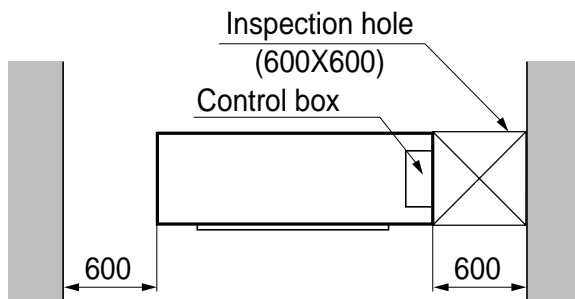
LRNV076BTG(Q)0/LRNN076BTG(Q)0/LRNV072BTG(Q)0/LRNN072BTG(Q)0
 LRNV096BTG(Q)0/LRNN096BTG(Q)0/LRNV092BTG(Q)0/LRNN092BTG(Q)0
 LRNV126BTG(Q)0/LRNN126BTG(Q)0/LRNV122BTG(Q)0/LRNN122BTG(Q)0



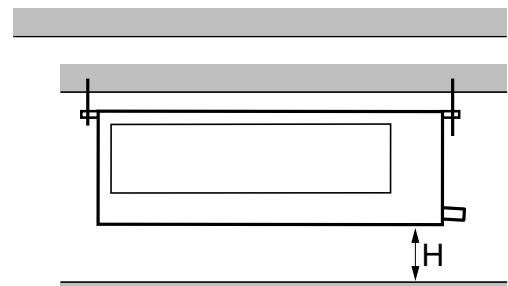
| Dimension Capacity | A | B | C | D | E | F | G | H |
|-----------------------|-----|-----|-----|----|-----|-----|-----|-----|
| 7k, 9k, 12k | 708 | 678 | 434 | 51 | 537 | 455 | 230 | 172 |

(unit: mm)

Top view
(unit: mm)

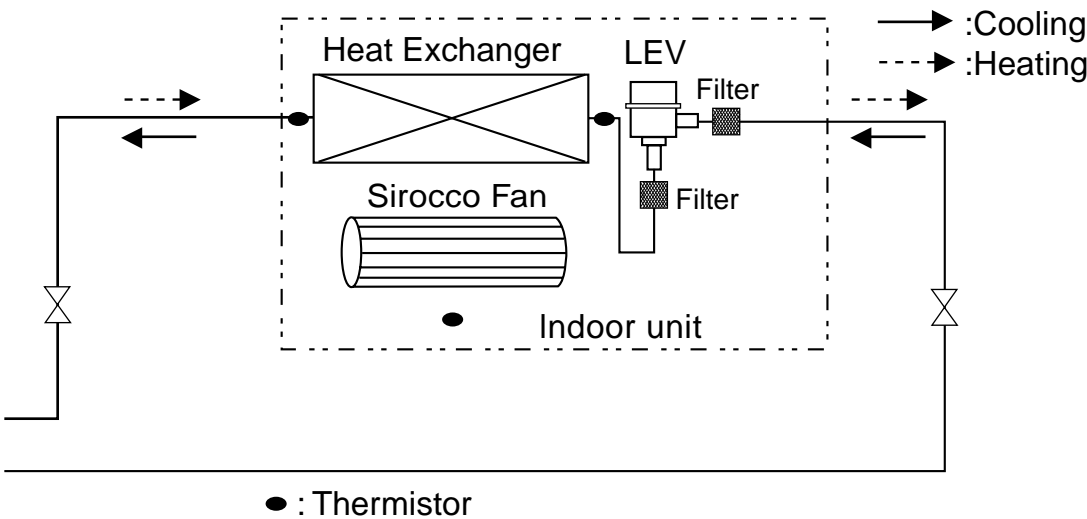


Front view



✱ Suitable dimension "H" is necessary to get a slope to drain as figure

5. Piping Diagrams

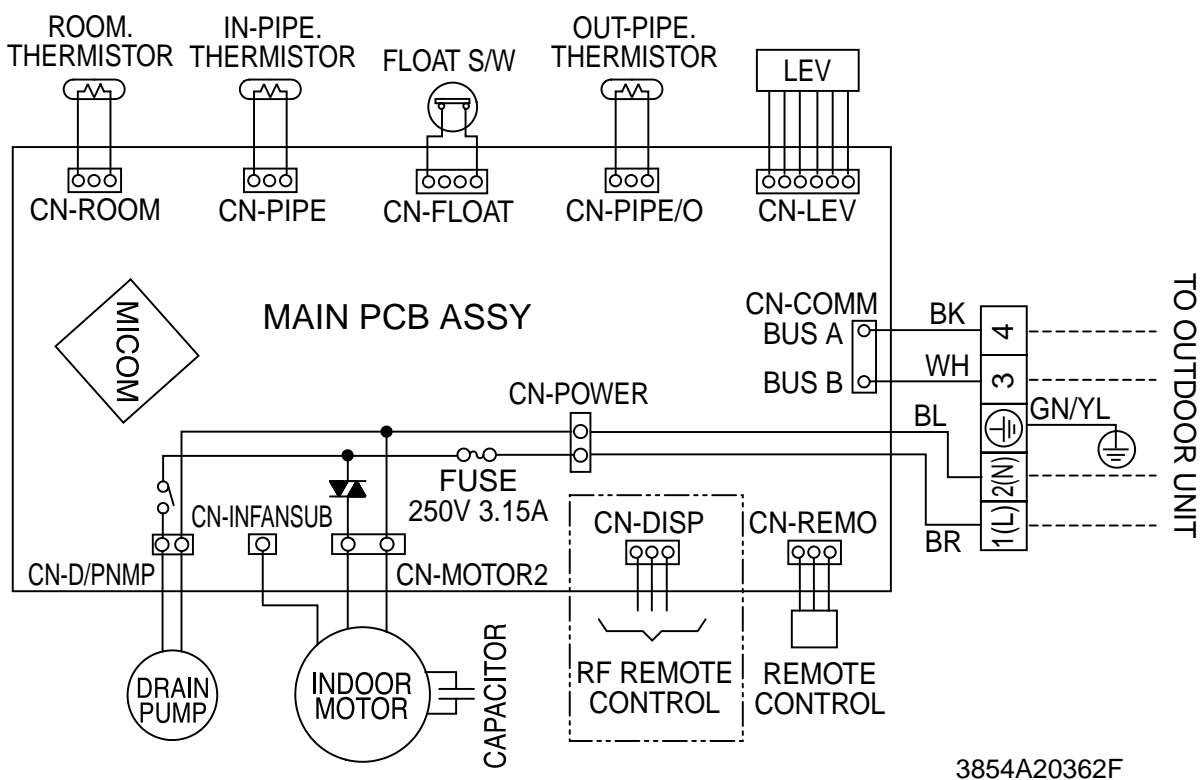


Refrigerant pipe connection port diameter

[unit: mm(inch)]

| MODEL | GAS | LIQUID |
|---|------------|------------|
| LRNV076BTG(Q)0/LRNN076BTG(Q)0/LRNV072BTG(Q)0/LRNN072BTG(Q)0 | Ø12.7(1/2) | Ø6.35(1/4) |
| LRNV096BTG(Q)0/LRNN096BTG(Q)0/LRNV092BTG(Q)0/LRNN092BTG(Q)0 | Ø12.7(1/2) | Ø6.35(1/4) |
| LRNV126BTG(Q)0/LRNN126BTG(Q)0/LRNV122BTG(Q)0/LRNN122BTG(Q)0 | Ø12.7(1/2) | Ø6.35(1/4) |

6. Wiring Diagrams



| CONNECTOR NUMBER | SPEC | COLOR | DESCRIPTION |
|------------------|-----------------------|--------|---|
| CN-POWER | AC POWER SUPPLY | WHITE | AC POWER LINE INPUT FOR INDOOR CONTROLLER |
| CN-MOTOR | AC FAN MOTOR OUTPUT | YELLOW | MOTOR OUTPUT OF PHASE CONTROL |
| CN-D/PUMP | DRAIN PUMP OUTPUT | WHITE | AC OUTPUT FOR DRAIN PUMP |
| CN-COMM | COMMUNICATION | WHITE | COMMUNICATION BETWEEN INDOOR AND OUTDOOR |
| CN-LEV | LEV OUTPUT | WHITE | LEV CONTROL OUTPUT |
| CN-FLOAT | FLOAT SWITCH INPUT | BLUE | FLOAT SWITCH SENSING |
| CN-PIPE | PIPE SENSOR | WHITE | PIPE THERMISTOR |
| CN-PIPE/O | DISCHARGE PIPE SENSOR | RED | DISCHARGE PIPE THERMISTOR |
| CN-ROOM | ROOM SENSOR | BLUE | ROOM THERMISTOR |
| CN-REMO | REMOTE CONTROLLER | WHITE | REMOTE CONTROL LINE |

Convertible Type

| | |
|--|------------|
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1. Specifications

1.1 50Hz

1.1.1 Cooling Only

Cooling Only (50Hz)

| Model | | Unit | LRNV186VBA0 | LRNV246VBA0 |
|---|----------------------|--|--|---------------------------------|
| Cooling Capacity | | W | 5,300 | 7,000 |
| | | kcal/h | 4,557 | 6,019 |
| | | Btu/h | 18,084 | 23,885 |
| Heating Capacity | | W | - | - |
| | | kcal/h | - | - |
| | | Btu/h | - | - |
| Dimensions (W*H*D) | Body | mm | Galvanized Steel Plate+Painting | Galvanized Steel Plate+Painting |
| | | inch | 1200*615*205 | 1200*615*205 |
| Coil | Rows x Columns x FPI | | 47.2*24.2*8.1 | 47.2*24.2*8.1 |
| | Face Area | m² | 2*12*18 | 2*12*18 |
| Fan | Type | | Cross Flow Fan | Cross Flow Fan |
| | Motor Output | W | 27 | 32 |
| | Running Current | A | 0.23 | 0.27 |
| | Air Flow Rate(H/M/L) | cmm | 13.5/12/11 | 16.1/14/12 |
| | | cfm | 477/424/389 | 569/495/424 |
| | Drive | | Direct | Direct |
| | Speed control | | Phase Control | Phase Control |
| Temperature Control | | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | |
| Sound Absorbing Thermal Insulation Material | | Foamed polystyrene | Foamed polystyrene | |
| Safety Device | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | |
| Pipe Connections | Liquid Side | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) |
| | Gas Side | mm(inch) | Ø15.88(5/8) | Ø15.88(5/8) |
| | Drain Pipe(ID) | mm | 20.0 | 20.0 |
| Net Weight | | kg(lbs) | 17(37.5) | 17(37.5) |
| Noise Level (Sound Press,1.5m, H/M/L) | | dBA±3 | 43/40/37 | 45/42/39 |
| Power Supply | | Ø / V / Hz | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 |
| Refrigerant Control | | | LEV | LEV |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C |
| Color | | | White | White |
| Stuffing Quantity | Without S/parts | 20/40ft | 102/219 | 102/219 |

Notes:-

1. Capacities are based on the following conditions:

- Cooling
- Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.: Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m³/min x 35.3

1.1.2 Heat Pump

Heat Pump (50Hz)

| Model | | Unit | LRNN186VBA0 | LRNN246VBA0 |
|---|----------------------|------------|--|--|
| Cooling Capacity | | W | 5,300 | 7,000 |
| | | kcal/h | 4,557 | 6,019 |
| | | Btu/h | 18,084 | 23,885 |
| Heating Capacity | | W | 5,963 | 7,875 |
| | | kcal/h | 5,127 | 6,771 |
| | | Btu/h | 20,345 | 26,870 |
| Dimensions (W*H*D) | Body | mm | Galvanized Steel Plate+Painting | Galvanized Steel Plate+Painting |
| | | inch | 1200*615*205 | 1200*615*205 |
| Coil | Rows x Columns x FPI | | 47.2*24.2*8.1 | 47.2*24.2*8.1 |
| | Face Area | m² | 2*12*18 | 2*12*18 |
| Fan | Type | | Cross Flow Fan | Cross Flow Fan |
| | Motor Output | W | 27 | 32 |
| | Running Current | A | 0.23 | 0.27 |
| | Air Flow Rate(H/M/L) | cmm | 13.5/12/11 | 16.1/14/12 |
| | | cfm | 477/424/389 | 569/495/424 |
| | Drive | | Direct | Direct |
| | Speed control | | Phase Control | Phase Control |
| Temperature Control | | | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystyrene | Foamed polystyrene |
| Safety Device | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor |
| Pipe Connections | Liquid Side | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) |
| | Gas Side | mm(inch) | Ø15.88(5/8) | Ø15.88(5/8) |
| | Drain Pipe(ID) | mm | 20.0 | 20.0 |
| Net Weight | | kg(lbs) | 17(37.5) | 17(37.5) |
| Noise Level (Sound Press,1.5m, H/M/L) | | dBA±3 | 43/40/37 | 45/42/39 |
| Power Supply | | Ø / V / Hz | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 |
| Refrigerant Control | | | LEV | LEV |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C |
| Color | | | White | White |
| Stuffing Quantity | Without S/parts | 20/40ft | 102/219 | 102/219 |

Notes:-

1. Capacities are based on the following conditions:

- Cooling
 - Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Heating
 - Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 - Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.: Linear Expansion Valve

Conversion Formula

Kcal/h = kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

1.2 60Hz

1.2.1 Cooling Only

Cooling Only (60Hz)

| Model | | Unit | LRNV182VBA0 | LRNV242VBA0 |
|---|----------------------|------------|--|--|
| Cooling Capacity | | W | 5,300 | 7,000 |
| | | kcal/h | 4,557 | 6,019 |
| | | Btu/h | 18,084 | 23,885 |
| Heating Capacity | | W | - | - |
| | | kcal/h | - | - |
| | | Btu/h | - | - |
| Dimensions (W*H*D) | Body | mm | Galvanized Steel Plate+Painting | Galvanized Steel Plate+Painting |
| | | inch | 1200*615*205 | 1200*615*205 |
| Coil | Rows x Columns x FPI | | 47.2*24.2*8.1 | 47.2*24.2*8.1 |
| | Face Area | m² | 2*12*18 | 2*12*18 |
| Fan | Type | | Cross Flow Fan | Cross Flow Fan |
| | Motor Output | W | 27 | 32 |
| | Running Current | A | 0.23 | 0.27 |
| | Air Flow Rate(H/M/L) | cmm | 13.5/12/11 | 16.1/14/12 |
| | | cfm | 477/424/389 | 569/495/424 |
| | Drive | | Direct | Direct |
| | Speed control | | Phase Control | Phase Control |
| Temperature Control | | | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystyrene | Foamed polystyrene |
| Safety Device | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor |
| Pipe Connections | Liquid Side | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) |
| | Gas Side | mm(inch) | Ø15.88(5/8) | Ø15.88(5/8) |
| | Drain Pipe(ID) | mm | 20.0 | 20.0 |
| Net Weight | | kg(lbs) | 17(37.5) | 17(37.5) |
| Noise Level (Sound Press,1.5m, H/M/L) | | dBA±3 | 43/40/37 | 45/42/39 |
| Power Supply | | Ø / V / Hz | 1 / 220 / 60 | 1 / 220 / 60 |
| Refrigerant Control | | | LEV | LEV |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C |
| Color | | | White | White |
| Stuffing Quantity | Without S/parts | 20/40ft | 102/219 | 102/219 |

Notes:-

- Capacities are based on the following conditions:
 - Cooling
 - Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Capacities are net capacities
- Due to our policy of innovation some specifications may be changed without notification
- L.E.V.: Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

1.2.2 Heat Pump

Heat Pump (60Hz)

| Model | | Unit | LRNN182VBA0 | LRNN242VBA0 |
|---|----------------------|------------|--|--|
| Cooling Capacity | | W | 5,300 | 7,000 |
| | | kcal/h | 4,557 | 6,019 |
| | | Btu/h | 18,084 | 23,885 |
| Heating Capacity | | W | 5,963 | 7,875 |
| | | kcal/h | 5,127 | 6,771 |
| | | Btu/h | 20,345 | 26,870 |
| Dimensions (W*H*D) | Body | mm | Galvanized Steel Plate+Painting | Galvanized Steel Plate+Painting |
| | | inch | 1200*615*205 | 1200*615*205 |
| Coil | Rows x Columns x FPI | | 47.2*24.2*8.1 | 47.2*24.2*8.1 |
| | Face Area | m² | 2*12*18 | 2*12*18 |
| Fan | Type | | Cross Flow Fan | Cross Flow Fan |
| | Motor Output | W | 27 | 32 |
| | Running Current | A | 0.23 | 0.27 |
| | Air Flow Rate(H/M/L) | cmm | 13.5/12/11 | 16.1/14/12 |
| | | cfm | 477/424/389 | 569/495/424 |
| | Drive | | Direct | Direct |
| | Speed control | | Phase Control | Phase Control |
| Temperature Control | | | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystyrene | Foamed polystyrene |
| Safety Device | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor |
| Pipe Connections | Liquid Side | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) |
| | Gas Side | mm(inch) | Ø15.88(5/8) | Ø15.88(5/8) |
| | Drain Pipe(ID) | mm | 20.0 | 20.0 |
| Net Weight | | kg(lbs) | 17(37.5) | 17(37.5) |
| Noise Level (Sound Press,1.5m, H/M/L) | | dBA±3 | 43/40/37 | 45/42/39 |
| Power Supply | | Ø / V / Hz | 1 / 220 / 60 | 1 / 220 / 60 |
| Refrigerant Control | | | LEV | LEV |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C |
| Color | | | White | White |
| Stuffing Quantity | Without S/parts | 20/40ft | 102/219 | 102/219 |

Notes:-

1. Capacities are based on the following conditions:

- Cooling
- Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Heating
- Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 - Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.: Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

2. Functions

Indoor Unit

Operation ON/OFF by Remote controller

Sensing the Room Temperature

- Room temperature sensor. (Thermistor)

Room temperature control

- Maintains the room temperature in accordance with the Setting Temperature.

Starting Current Control

- Indoor fan is delayed for 5 seconds at the starting.

Time Delay Safety Control

- Restarting is inhibited for approx. 3 minutes.

Indoor Fan Speed Control

- High, Med, Low, Chaos

Operation indication Lamps (LED)

- ① --- Lights up in operation
- ☆ --- Lights up in Sleep Mode
- ⌚ --- Lights up in Timer Mode
- ✱ --- Lights up in Deice Mode or Hot Start Mode
- 💧

Soft Dry Operation Mode

- Intermittent operation of fan at low speed.

Sleep Mode Auto Control

- The fan is switched to low(Cooling), med(Heating) speed.
- The unit will be stopped after 1, 2, 3, 4, 5, 6, 7 hours.

Natural Air Control by CHAOS Logic

- The fan is switched to intermittent or irregular operation
- The fan speed is automatically switched from high to low speed.

Airflow Direction Control

- The louver can be set at the desired position or swing up and down, right and left automatically.

Auto Operation

- The setting temperature, indoor fan speed and desired operation made are automatically set by fuzzy rule.

Deice (defrost) control (Heating)

- Both the indoor and outdoor fan stops during deicing.
- Hot start after deice ends.

Hot-start Control (Heating)

- The indoor fan does not rotate until the evaporator piping temperature will be reached at 22°C.

3. Operation Details

(1) The function of main control

■ Time Delay Safety Control

- 3min... The compressor is ceased for 3minutes to balance the pressure in the refrigeration cycle.
(Protection of compressor)
- 5sec... Vertical air flow direction control louvers open in 5 seconds to prevent noise between louvers and wind.
- 30sec... The 4-way valve is ceased for 30sec. to prevent the refrigerant-gas abnormal noise when the Heating operation is OFF or switched to the other operation mode while compress is off.
While compressor is running, it takes 3~5 seconds to switch.

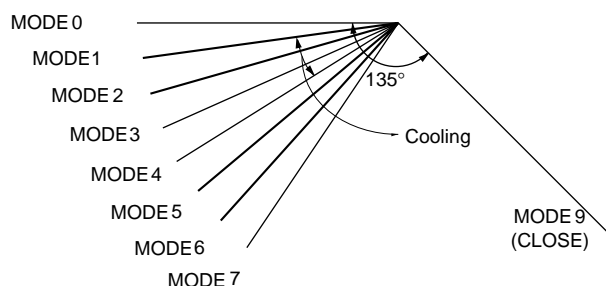
■ Airflow Direction Control

- This function is to swing the louver up and down automatically and to set it at the desired position.
- The procedure is as the following.

1st ; Press the ON/OFF Button to operate the product.

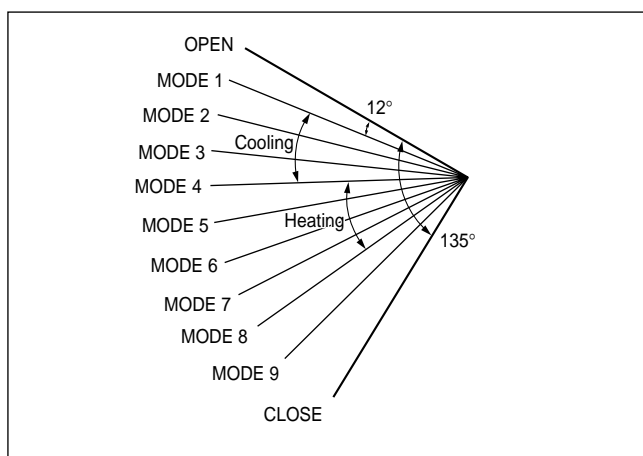
2nd ; Press the Airflow Direction Control Button to swing the louver up and down automatically.

3nd ; Repress the Airflow Direction Control Button to set the louver as the desired position.

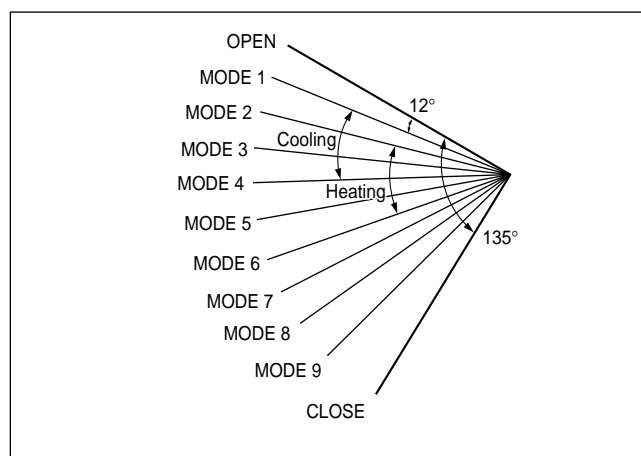


※ For Heating Model

- Airflow direction control figure when installed on the floor.

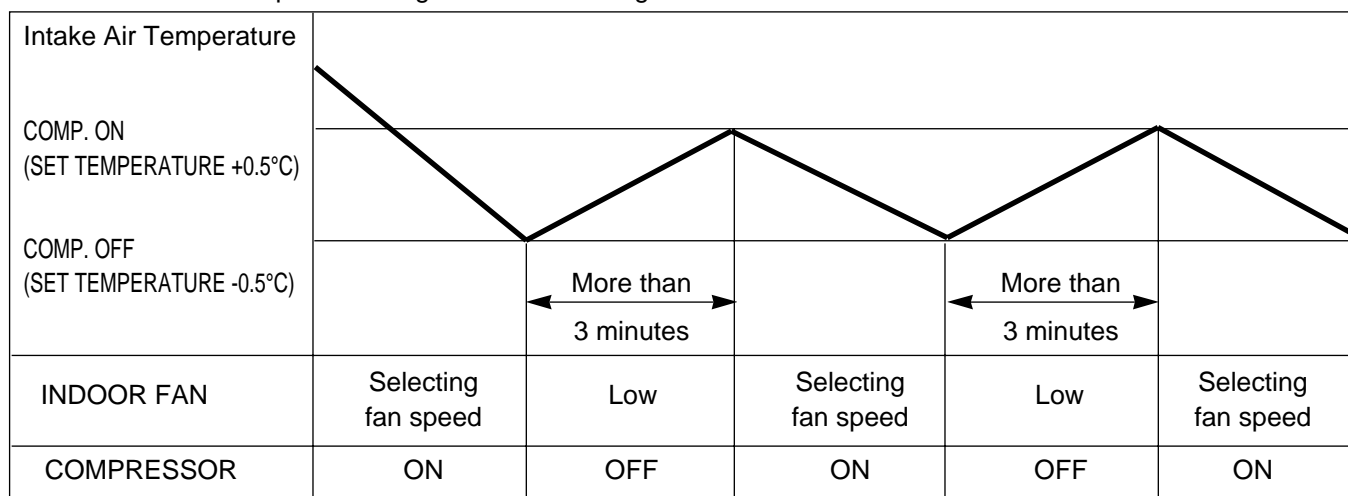


- Airflow direction control figure when installed under the ceiling.



■ Cooling Mode Operation

- When selecting the Cooling(❄️) Mode Operation, the unit will operate according to the setting by the remote controller and the operation diagram is as following

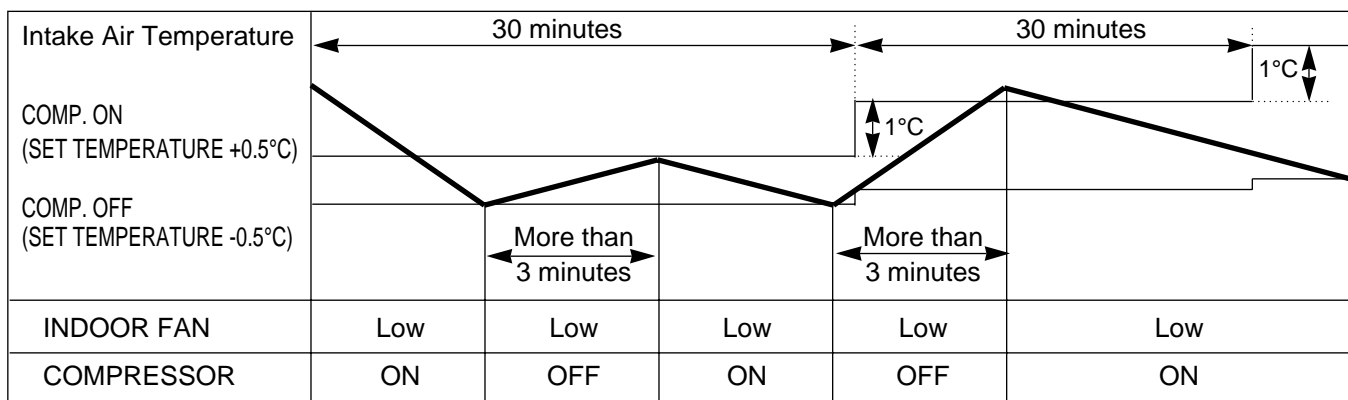


■ Cooling or Heating Mode with Sleep Mode Auto Operation

- When selecting the Cooling(❄️) or the Heating(🔥) combined with the Sleep Mode Auto Operation(📶), the operation diagram is as following.

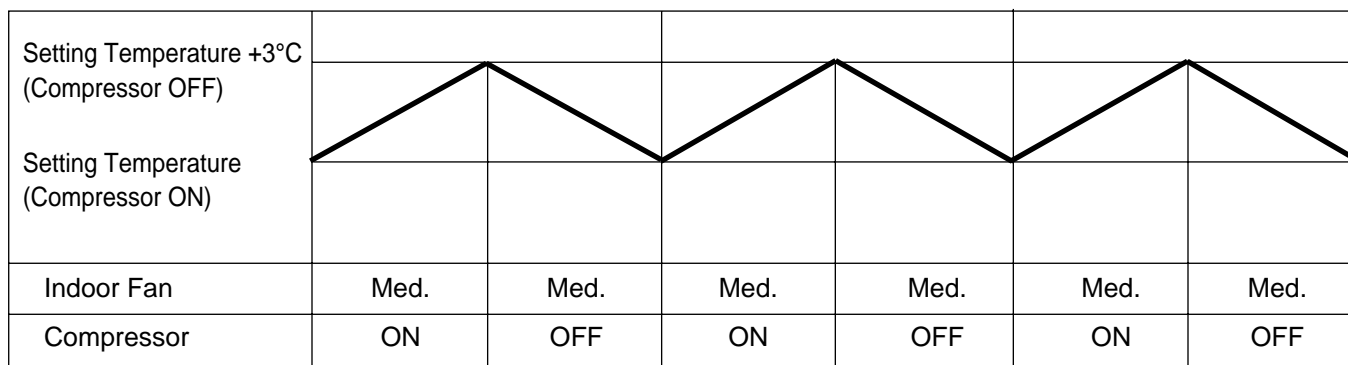
■ Cooling Mode with the Sleep Mode

- The setting temperature will be raised by 1°C 30minutes later and by 2°C 1 hour later.
- The operation will be stopped after 1, 2, 3, 4, 5, 6, 7 hours.

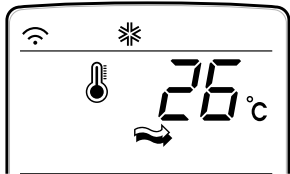


■ Heating Mode with the Sleep Mode.

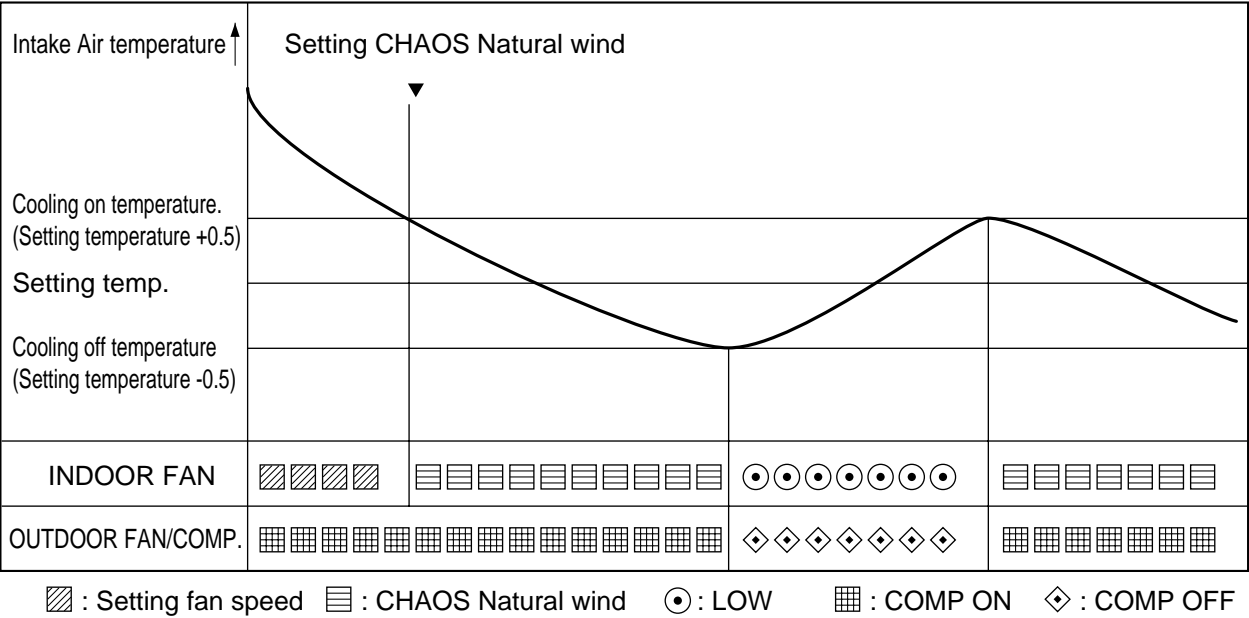
- The operation will be stopped after 1, 2, 3, 4, 5, 6, 7 hours.



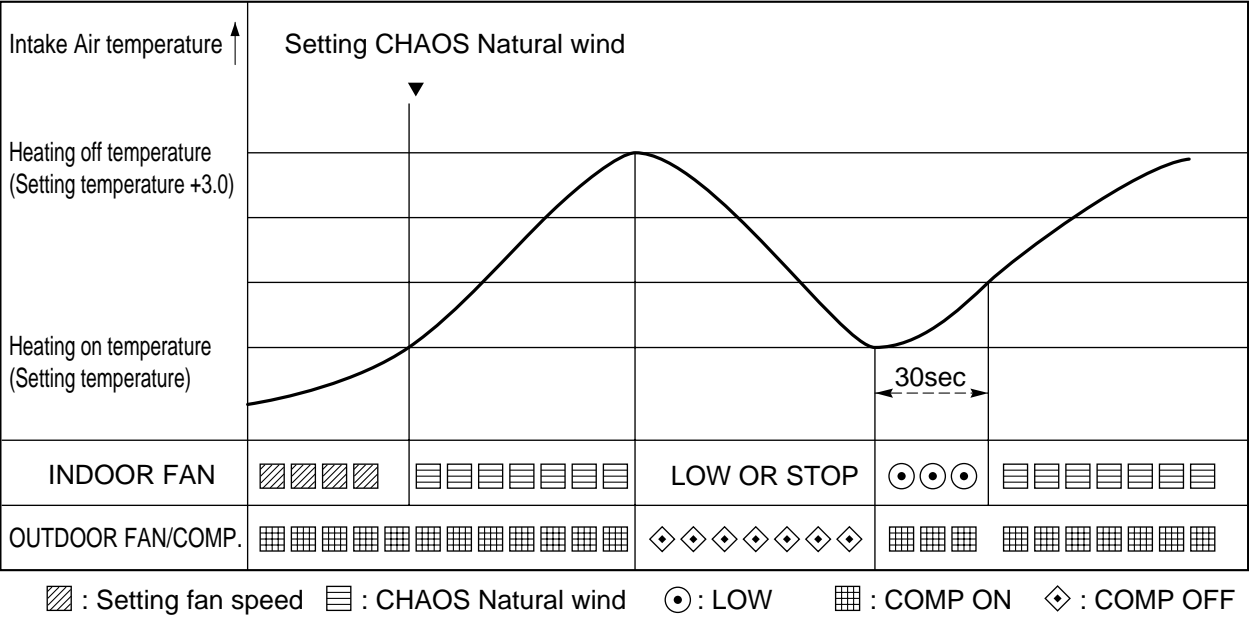
■ Natural wind by CHAOS logic



For more fresh feeling than other fan speed mode, press the indoor fan Speed Selector and set to CHAOS mode. In this mode, the wind blows like natural breeze by automatically changing fan speed according to the CHAOS logic.



GRAPH of Natural wind by the CHAOS logic (During Cooling operation)

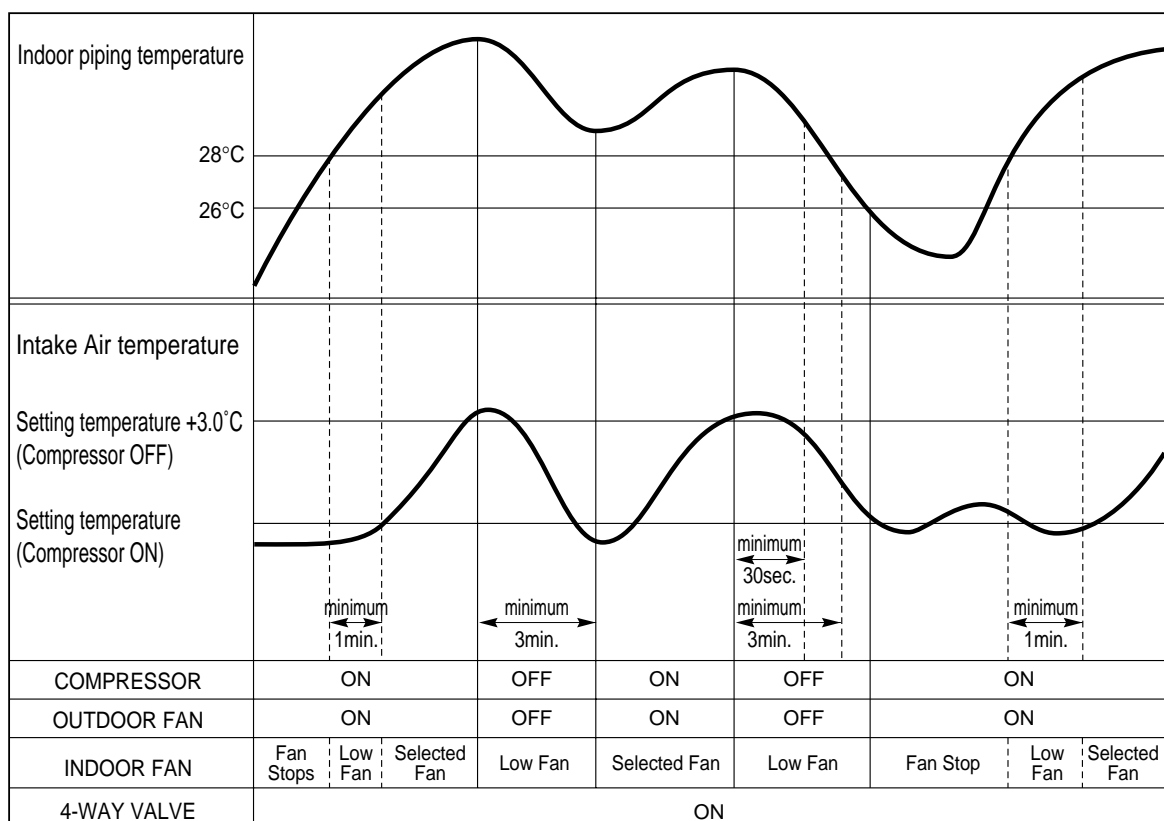


GRAPH of Natural wind by the CHAOS logic (During Heating operation)

■ Heating Mode Operation

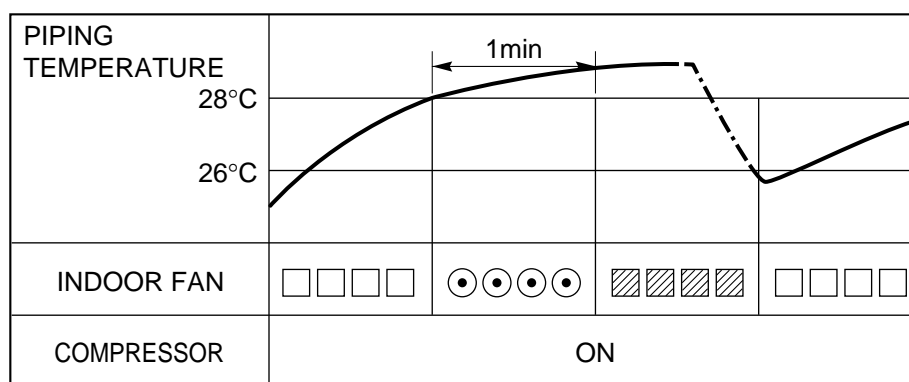
The unit will operate according to the setting by the remote controller and the operation diagram is shown as following.

- For Heating Model



■ Hot-Start Control

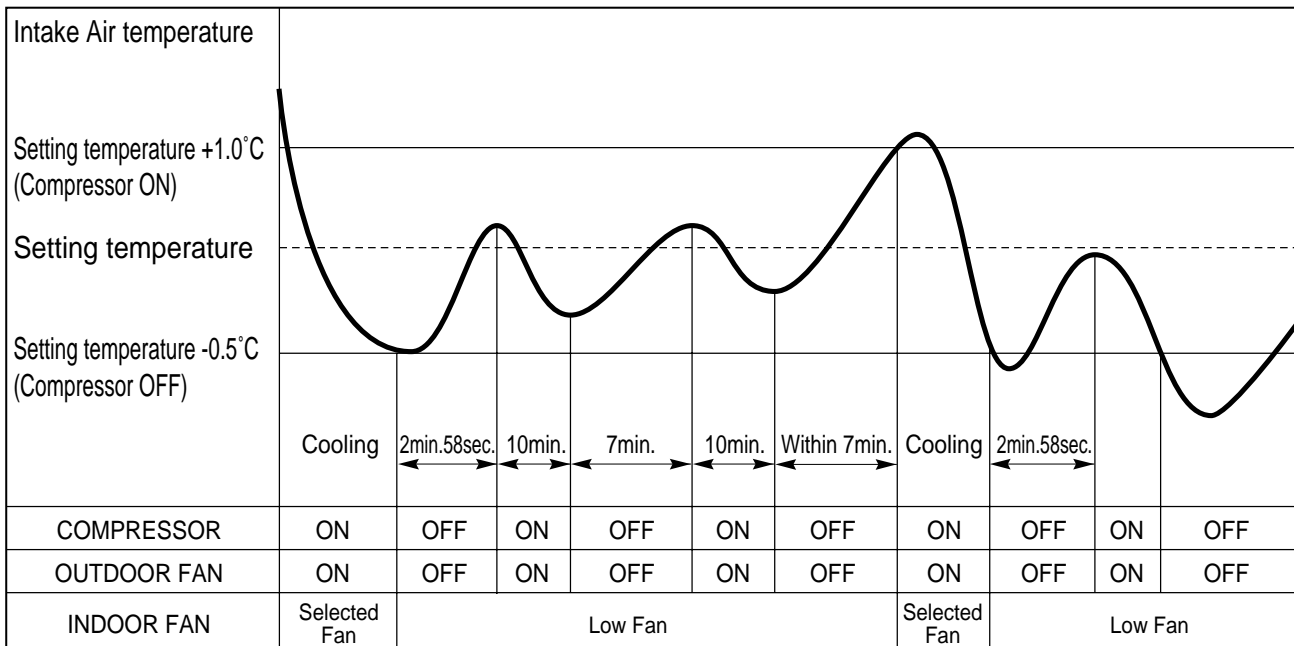
- The indoor fan does not rotate until the evaporator piping temperature will be reached to 22°C.
- During heating operation, if piping temperature falls below 28°C fan stops.
- The operation diagram is as following.



▨ : Selected Fan ● : Low Fan □ : Fan Stop

■ Soft Dry Operation

- During Soft Dry Operation, the compressor ON temperature is the setting temperature plus 1°C, the compressor OFF temperature is the setting temperature minus 0.5°C.
- When the room temperature rises over the compressor ON temperature, the operation mode is switched to the cooling mode.
- When the room temperature falls between the compressor ON temperature and OFF temperature, the operation mode is switched to the Soft Dry Operation.
In this temperature range, 10min. Dry Operation, 7min operation OFF. During 10min Dry operation, if the room temperature falls below compressor OFF temperature, Compressor OFF.
- In dehumidify mode, control of fan speed is as following.

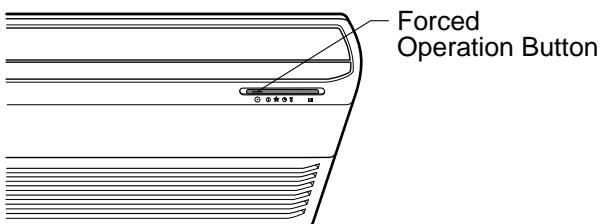


■ Forced operation

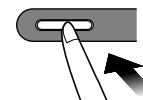
- If you lose wireless remote controller, you can operate the unit with forced operation switch.
- The standard conditions are as following.

| | | | |
|---------------------|--|--|---|
| | Room Temperature $\geq 24^{\circ}\text{C}$ | $21^{\circ}\text{C} < \text{Room Temperature} \leq 24^{\circ}\text{C}$ | Room Temperature $< 21^{\circ}\text{C}$ |
| Operation Mode | Cooling | Soft Dry | Heating |
| FAN Speed | High | Soft Dry Rule | High |
| Setting Temperature | 22°C | Air Intake Temperature | 24°C |

- Unit operates in low fan mode for first 15 seconds, then switched to proper operation mode according to intake Air temperature.



Press the Forced Operation Button.



- Press the Forced Operation Button once again to stop operation.

■ Protection of the evaporator pipe from frosting

If the temperature of the indoor coil is below -2°C after 7 minutes from starting the compressor, the compressor and the outdoor fan is stopped, and then after 3 minute delay of the compressor and the temperature of the indoor coil is over 7°C, the compressor and the outdoor fan is reoperated.

Indoor fan operates at low speed (comp. OFF) or at selected speed (comp. ON)

■ Inlet grille open

Once the inlet grille is opened during operation of the unit, the unit automatically stops operation and the lamps will be turned-off. But memorized functions are still available.

When the inlet grille is closed again, the unit become waiting state for operation. From then, the unit can be operated by forced operation button or Start/Stop button of remote controller.

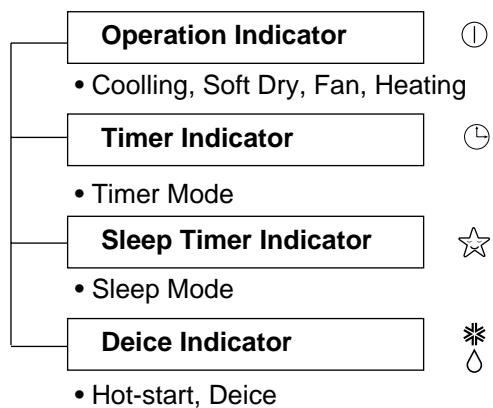
■ Test Operation

- When pressing forced operation switch about 3 seconds, the unit operates in cooling mode at high speed fan regardless of room temperature and resets in 18 min.
- During test operation, if remote controller signal is received, the unit operates as remote controller sets.

■ Auto Restarting Operation

- When the power is restored after a sudden power failure while in appliance is in operation, the mode before the power failure is kept on the memory and the appliance should operate automatically in the mode kept in the memory.
- Operation Mode that is kept on the memory
 - State of Operation ON/OFF
 - Operation Mode/Setting Temperature /Selected airflow Speed
 - Sleep Timer Mode/Remaining Time of Sleep Timer(unit of hour)
- If no input by the remote controller or no switching of the slide switch within 7 hours after the appliance operates by the Auto Restarting operation, the appliance is forced to stop at the moment of 7 hours elapse.

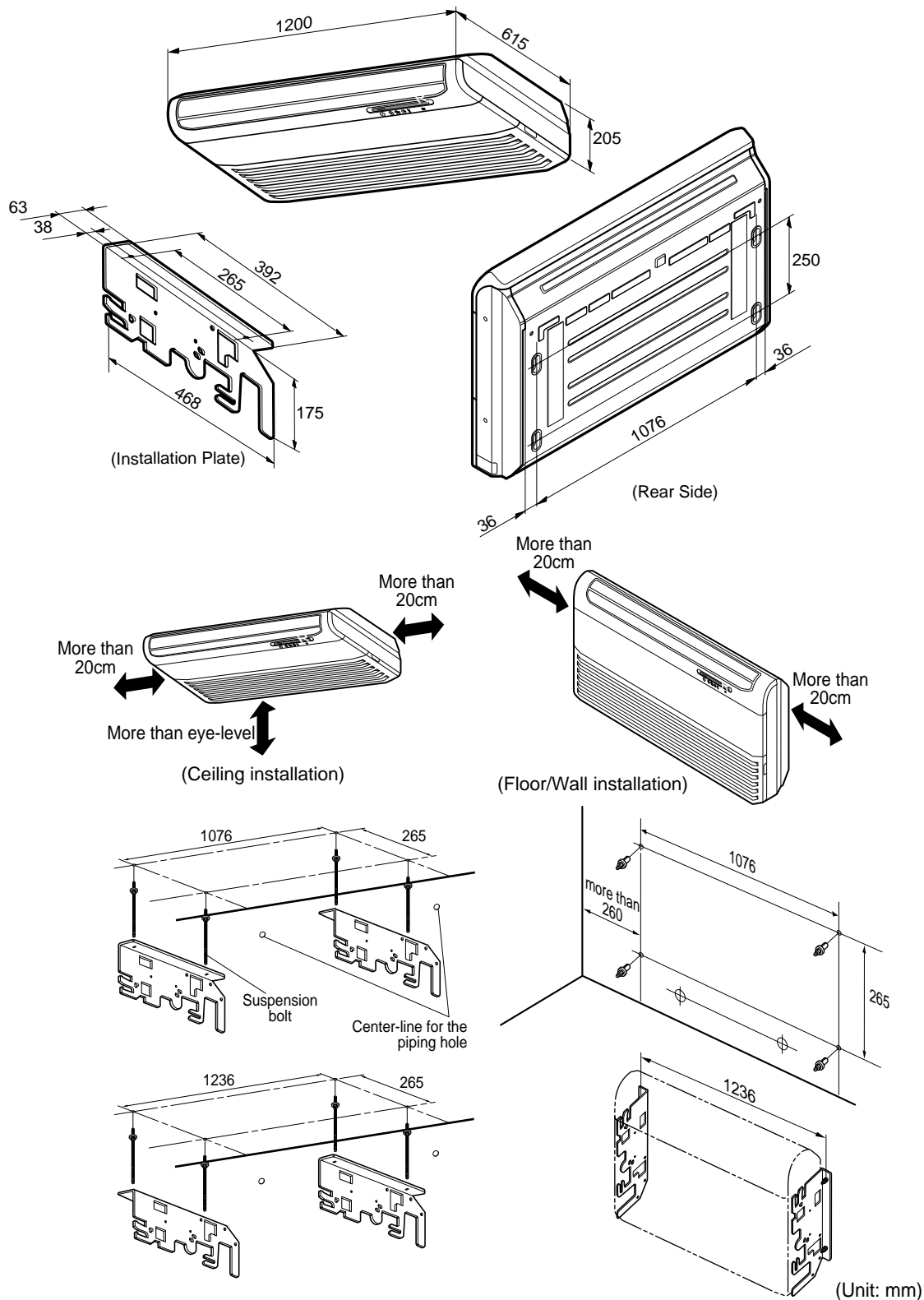
4. Display Function

**Note)**

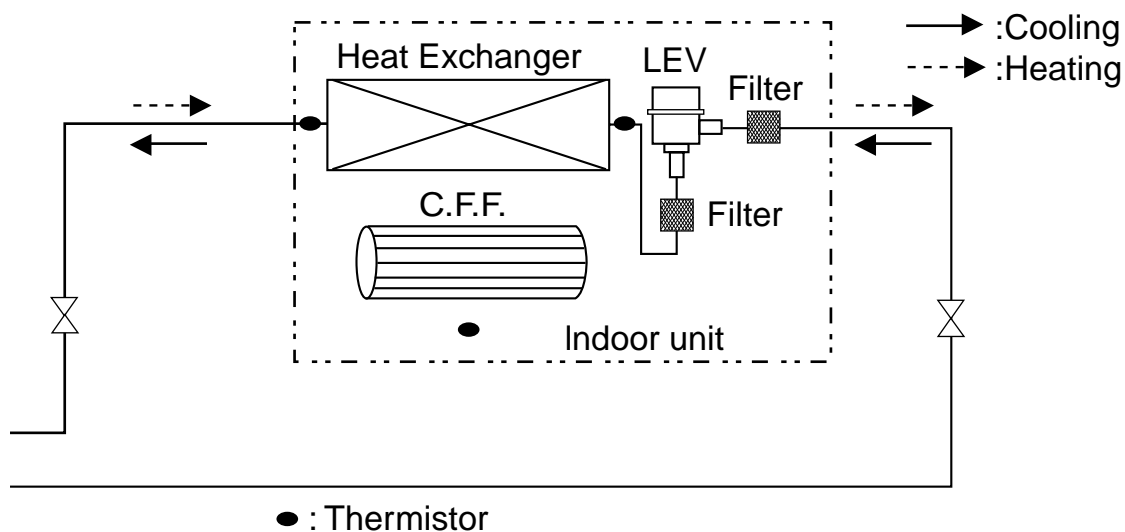
For normal operation after checking by test mode, you should press SW1 nine times for resetting or reconnect the power cord.

5. Dimensional Drawings

LRNV186VBA0/LRNN186VBA0/LRNV182VBA0/LRNN182VBA0
LRNV246VBA0/LRNN246VBA0/LRNV242VBA0/LRNN242VBA0



6. Piping Diagrams



Refrigerant pipe connection port diameter

[unit: mm(inch)]

| Model | Gas | Liquid |
|---|-------------|------------|
| LRNV186VBA0/LRNN186VBA0/LRNV182VBA0/LRNN182VBA0 | Ø15.88(5/8) | Ø9.52(3/8) |
| LRNV246VBA0/LRNN246VBA0/LRNV242VBA0/LRNN242VBA0 | Ø15.88(5/8) | Ø9.52(3/8) |



8. Disassembly of the parts

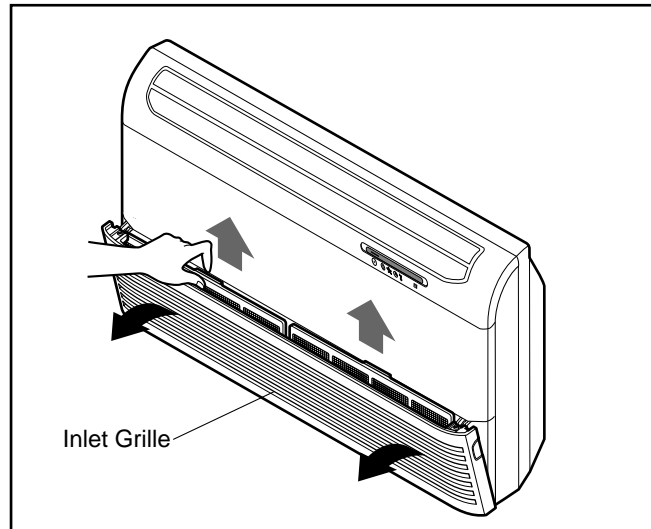
Warning :

Disconnect the unit from power supply before making any checks.

Be sure the power switch is set to "OFF".

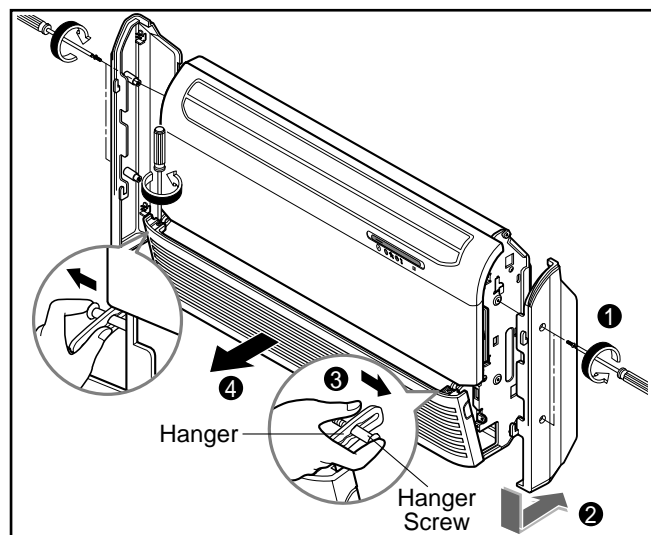
1. Remove the air filter.

- Pull the inlet grille slightly toward you.
- Pull out the air filter. (2 pieces)



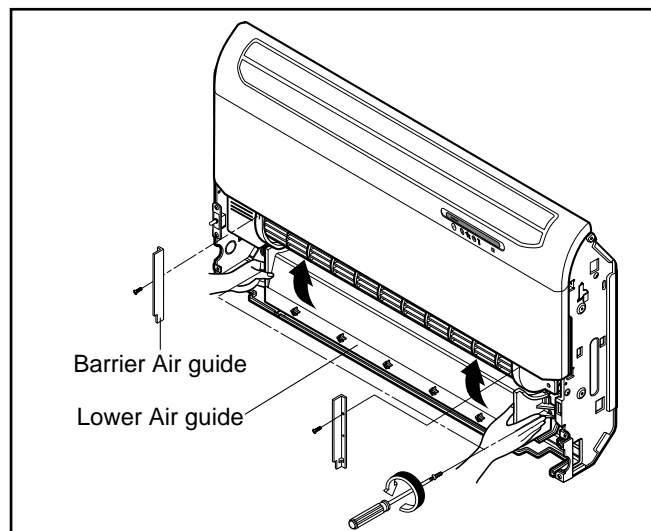
2. Remove the grille from chassis

- Remove the screws securing the side plate and push to the bottom-side.
- Unhook the hanger from the hanger screw at the left and the right side.
- Pick out the inlet grille.



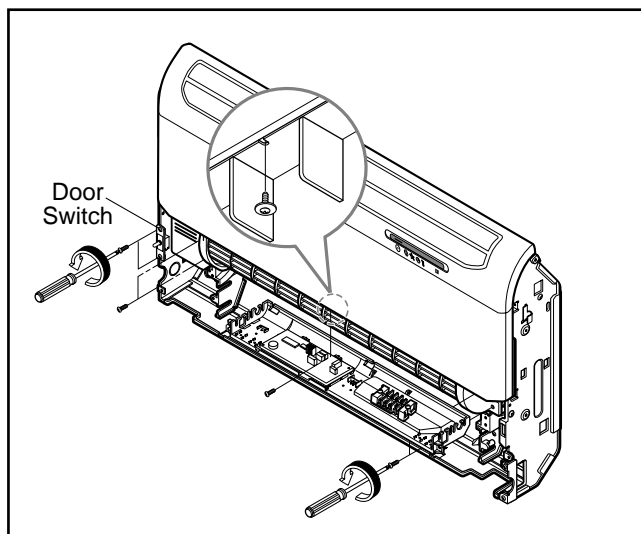
3. Remove the lower air guide

- Remove a screw of both side fixing "barrier air-guide".
- Remove the screws of both sides of the lower air-guide.
- Remove the lower air-guide toward "arrow mark" by turning upwards as shown in figure.

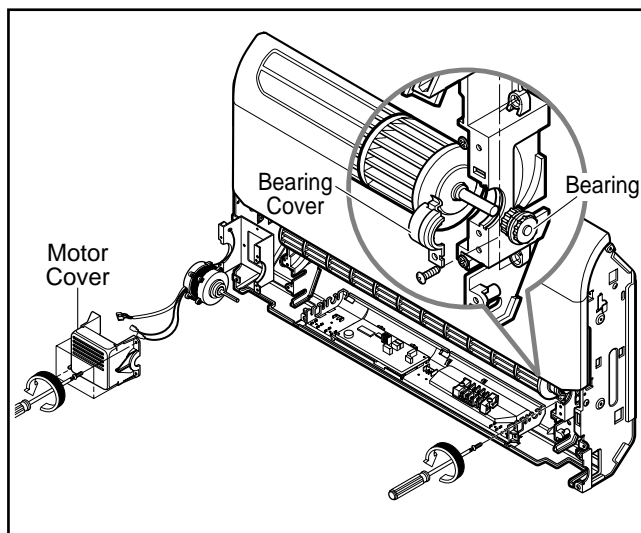


4. Remove air guide upper, crossflow fan and motor.

- Remove the screws of both sides and center securing the upper air-guide.
- Remove 2 screws fastening the bracket of door switch.

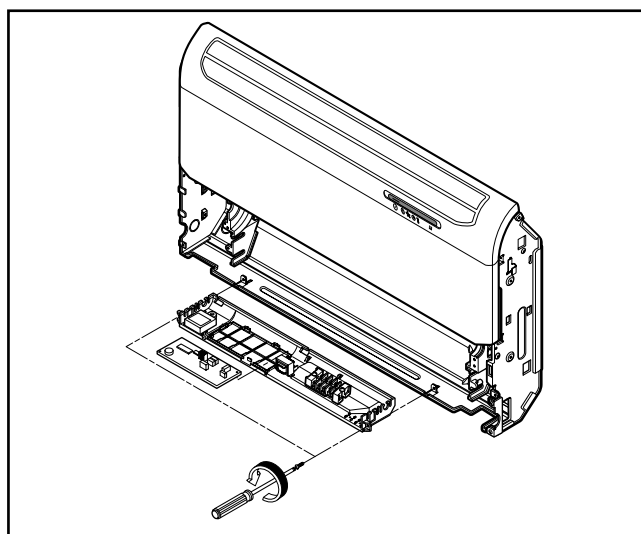


- Remove a bearing assembly by removing a screw and the bearing cover.
- Remove 4 screws securing the motor cover.
- Loosen the screw securing the crossflow fan to the fan motor shaft. (do not remove)
- Remove the crossflow fan by sliding it out from the shaft of fan motor.



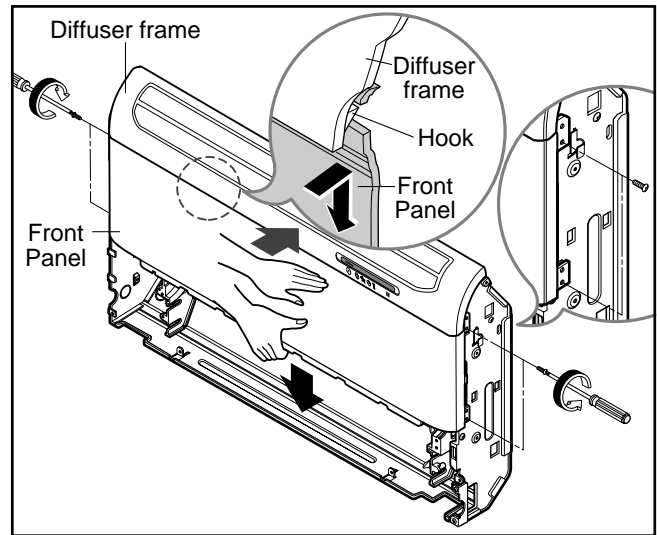
5. Remove the control box Assembly.

- Disconnect the step motor connector, fan motor connector, display PCB connector, thermistor connector and door switch connector from the main PCB.
- If necessary, disconnect power supply cord and connecting cable from the terminal block and remove the cord clamp screw.
- Remove 2 screws securing the control box and pick out the control box carefully.



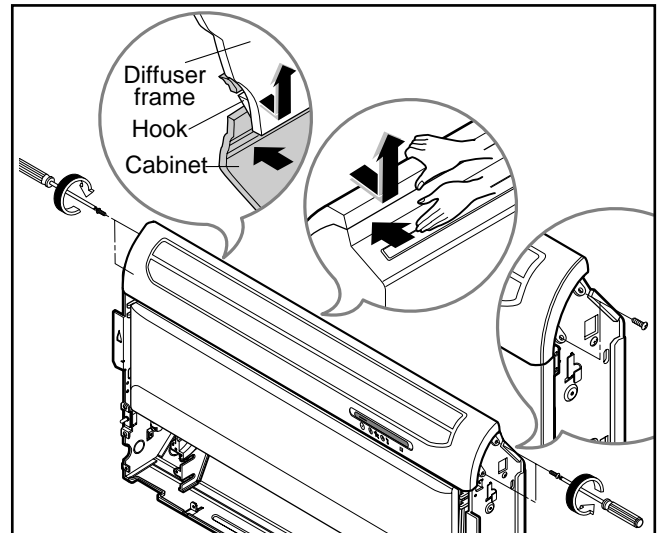
6. Remove the front panel.

- Remove the screws of both sides fixing the front panel.
- Push the upper side of front panel strongly to pull out the front panel from the inner hook of diffuser frame.
- Pull down the front panel carefully not so as to harm the display PCB wires and thermistor wires.



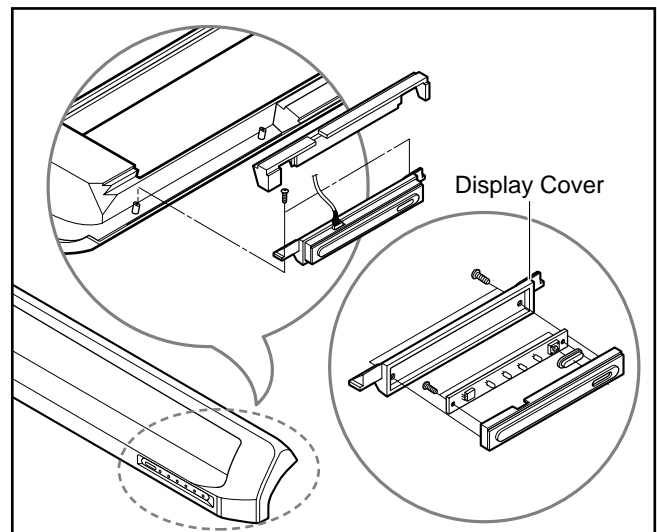
7. Remove the diffuser assembly.

- Remove the screws of both side of diffuser assembly. (4 pieces)
- Push the upper side of cabinet strongly to pull out the inner hook of diffuser frame from the cabinet hole.
- Take up the diffuser frame carefully not so as to harm the display PCB wires and the step motor wires.



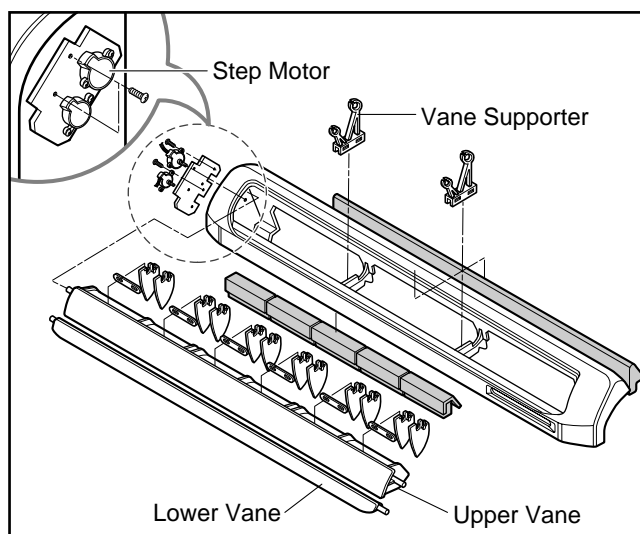
8. Remove display PCB assembly.

- Remove the screws at the both side of display cover.
- If necessary, disconnect the display PCB connector from PCB assembly.
- Remove 2 screws of PCB assembly.



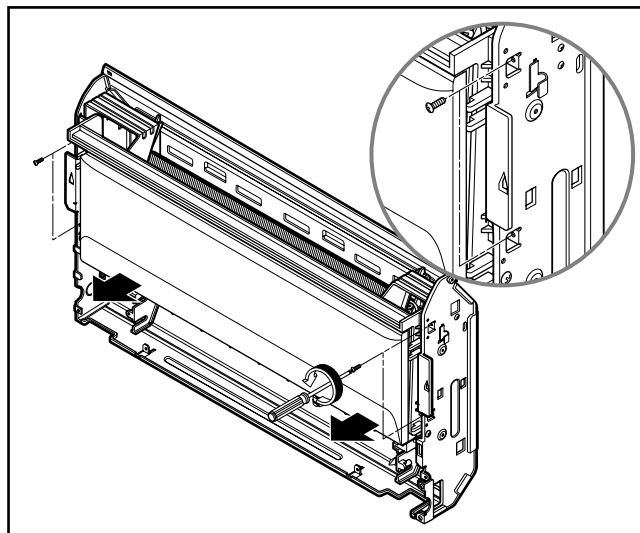
9. Remove the vane-upper, vane-lower and step motor.

- Remove 2 screws securing the step motor assembly and pull it out from the vanes carefully.
- Unhook the vanes from the vane supporter and remove the upper vane and lower vane by pulling the center of vanes with care.



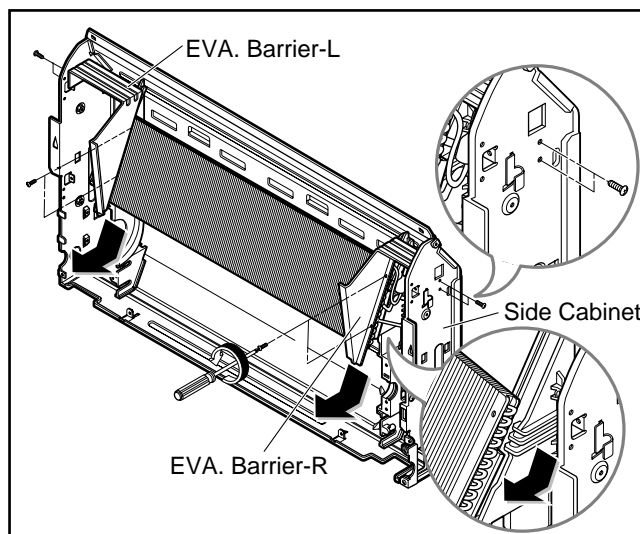
10. Remove the drain pan assembly.

- Remove the both side of screws. (4 pieces)
- Pull out the drain pan assembly.
- Be careful not to harm to the EPS packing of drain pan and the tubings of evaporator.



11. Remove the evaporator.

- Remove the screws of both sides securing the EVA barrier-R/L on the side cabinet.
- Remove the screws which fasten the barrier on the evaporator and take out the barrier assembly.
- Remove the evaporator assembly by sliding toward arrow mark. (As shown in figure)



Wall Mounted Type

| | |
|---|------------|
| 1. Specification | 108 |
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| 6. Wiring Diagrams | 120 |
| 7. Disassembly of the parts..... | 121 |

1. Specifications

1.1 50Hz

1.1.1 Cooling Only

Cooling Only (50Hz)

| Model | | | Unit | LRNV076SRA(L)0 | LRNV096SRA(L)0 | LRNV126SRA(L)0 | LRNV186STA(L)0 |
|---|----------------------|------------|--|--|--|--|----------------|
| Cooling Capacity | | | W | 2,100 | 2,600 | 3,500 | 5,300 |
| | | | kcal/h | 1,806 | 2,235 | 3,009 | 4,557 |
| | | | Btu/h | 7,165 | 8,871 | 11,942 | 18,084 |
| Heating Capacity | | | W | - | - | - | - |
| | | | kcal/h | - | - | - | - |
| | | | Btu/h | - | - | - | - |
| Dimensions (W*H*D) | Body | mm | 900*285*156 | 900*285*156 | 900*285*156 | 1090*314*172 | |
| | | inch | 35.4*11.2*6.1 | 35.4*11.2*6.1 | 35.4*11.2*6.1 | 42.9*12.4*6.8 | |
| Coil | Rows x Columns x FPI | | 2*12*20 | 2*12*20 | 2*12*20 | 2*13*20 | |
| | Face Area | m² | 0.13 | 0.13 | 0.13 | 0.23 | |
| Fan | Type | | Cross Flow Fan | Cross Flow Fan | Cross Flow Fan | Cross Flow Fan | |
| | Motor Output | W | 15 | 15 | 15 | 25 | |
| | Running Current | A | 0.20 | 0.20 | 0.20 | 0.30 | |
| | Air Flow Rate(H/M/L) | cmm | 5.6/5/4.6 | 7/ 6.5 /6 | 9.5/ 9/8.5 | 12/10.5/10.3 | |
| | | cfm | 198/177/162.5 | 247/230/212 | 336/318/300 | 424/371/364 | |
| | Drive | | Direct | Direct | Direct | Direct | |
| | Speed control | | Phase Control | Phase Control | Phase Control | Phase Control | |
| Temperature Control | | | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystyrene | Foamed polystyrene | Foamed polystyrene | Foamed polystyrene | |
| Air Filter | | | Resin Net(washable) | Resin Net(washable) | Resin Net(washable) | Resin Net(washable) | |
| Safety Device | | | Fuse | Fuse | Fuse | Fuse | |
| Pipe Connections | Liquid Side | mm(inch) | Ø6.35(1/4) | Ø6.35(1/4) | Ø6.35(1/4) | Ø9.52(3/8) | |
| | Gas Side | mm(inch) | Ø12.7(1/2) | Ø12.7(1/2) | Ø12.7(1/2) | Ø15.88(5/8) | |
| | Drain Pipe(ID) | mm | 20 | 20 | 20 | 20 | |
| Net Weight | | kg(lbs) | 7(15.4) | 7(15.4) | 7(15.4) | 12(26.5) | |
| Noise Level(Sound Press, 1.5m, H/M/L) | | dBA±3 | 33/30/27 | 34/31/28 | 36/33/30 | 40/37/34 | |
| Power Supply | | Ø / V / Hz | 1 / 220 ~ 240 / 50 | 1, 220 ~ 240, 50 | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 | |
| Refrigerant Control | | | LEV | LEV | LEV | LEV | |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C | |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | |
| Panel Color | | | White | White | White | White | |
| Stuffing Quantity | Without S/parts | 20/40ft | 340/720 | 340/720 | 340/720 | 270/540 | |

Notes:-

1. Capacities are based on the following conditions:

- Cooling • Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
- Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
- Interconnecting Piping Length 7.5m
- Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.: Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
Btu/h = kW x 3414
cfm = m³/min x 35.3

1.1.2 Heat Pump

Heat Pumps(50Hz)

| Model | | Unit | LRNN076SRA(L)0 | LRNN0926RA(L)0 | LRNN126SRA(L)0 | LRNN186STA(L)0 |
|---|----------------------|-----------------|--|--|--|--|
| Cooling Capacity | | W | 2,100 | 2,600 | 3,500 | 5,300 |
| | | kcal/h | 1,806 | 2,235 | 3,009 | 4,557 |
| | | Btu/h | 7,165 | 8,871 | 11,942 | 18,084 |
| Heating Capacity | | W | 2,363 | 2,925 | 3,938 | 5,963 |
| | | kcal/h | 2,031 | 2,515 | 3,385 | 5,127 |
| | | Btu/h | 8,061 | 9,980 | 13,435 | 20,345 |
| Dimensions (W*H*D) | Body | mm | 900*285*156 | 900*285*156 | 900*285*156 | 1090*314*172 |
| | | inch | 35.4*11.2*6.1 | 35.4*11.2*6.1 | 35.4*11.2*6.1 | 42.9*12.4*6.8 |
| Coil | Rows x Columns x FPI | | 2*12*20 | 2*12*20 | 2*12*20 | 2*13*20 |
| | Face Area | m ² | 0.13 | 0.13 | 0.13 | 0.23 |
| Fan | Type | | Cross Flow Fan | Cross Flow Fan | Cross Flow Fan | Cross Flow Fan |
| | Motor Output | W | 15 | 15 | 15 | 25 |
| | Running Current | A | 0.20 | 0.20 | 0.20 | 0.30 |
| | Air Flow Rate(H/M/L) | cmm | 5.6/5/4.6 | 7/ 6.5 /6 | 9.5/ 9/8.5 | 12/10.5/10.3 |
| | | cfm | 198/177/162.5 | 247/230/212 | 336/318/300 | 424/371/364 |
| | Drive | | Direct | Direct | Direct | Direct |
| | Speed control | | Phase Control | Phase Control | Phase Control | Phase Control |
| Temperature Control | | | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystyrene | Foamed polystyrene | Foamed polystyrene | Foamed polystyrene |
| Air Filter | | | Resin Net(washable) | Resin Net(washable) | Resin Net(washable) | Resin Net(washable) |
| Safety Device | | | Fuse | Fuse | Fuse | Fuse |
| Pipe Connections | Liquid Side | mm(inch) | Ø6.35(1/4) | Ø6.35(1/4) | Ø6.35(1/4) | Ø9.52(3/8) |
| | Gas Side | mm(inch) | Ø12.7(1/2) | Ø12.7(1/2) | Ø12.7(1/2) | Ø15.88(5/8) |
| | Drain Pipe(ID) | mm | 20 | 20 | 20 | 20 |
| Net Weight | | kg(lbs) | 7(15.4) | 7(15.4) | 7(15.4) | 12(26.5) |
| Noise Level(Sound Press, 1.5m, H/M/L) | | dBA±3 | 33/30/27 | 34/31/28 | 36/33/30 | 40/37/34 |
| Power Supply | | Ø / V / Hz | 1, 220 ~ 240, 50 | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 | 1, 220 ~ 240, 50 |
| Refrigerant Control | | | LEV | LEV | LEV | LEV |
| Power cable | | mm ² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C |
| Transmission cable | | mm ² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C |
| Panel Color | | | White | White | White | White |
| Stuffing Quantity | Without S/parts | 20/40ft | 340/720 | 340/720 | 340/720 | 270/540 |

Notes:-

1. Capacities are based on the following conditions:

- Cooling
- Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Heating
- Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 - Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.:Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3414
 cfm = m³/min x 35.3

1.2 60Hz

1.2.1 Cooling Only

Cooling Only (60Hz)

| Model | | Unit | LRNV072SRA(L)0 | LRNV092SRA(L)0 | LRNV122SRA(L)0 | LRNV182STA(L)0 |
|---|----------------------|-----------------|--|--|--|--|
| Cooling Capacity | | W | 2,100 | 2,600 | 3,500 | 5,300 |
| | | kcal/h | 1,806 | 2,235 | 3,009 | 4,557 |
| | | Btu/h | 7,165 | 8,871 | 11,942 | 18,084 |
| Heating Capacity | | W | - | - | - | - |
| | | kcal/h | - | - | - | - |
| | | Btu/h | - | - | - | - |
| Dimensions (W*H*D) | Body | mm | 900*285*156 | 900*285*156 | 900*285*156 | 1090*314*172 |
| | | inch | 35.4*11.2*6.1 | 35.4*11.2*6.1 | 35.4*11.2*6.1 | 42.9*12.4*6.8 |
| Coil | Rows x Columns x FPI | | 2*12*20 | 2*12*20 | 2*12*20 | 2*13*20 |
| | Face Area | m ² | 0.13 | 0.13 | 0.13 | 0.23 |
| Fan | Type | | Cross Flow Fan | Cross Flow Fan | Cross Flow Fan | Cross Flow Fan |
| | Motor Output | W | 15 | 15 | 15 | 25 |
| | Running Current | A | 0.20 | 0.20 | 0.20 | 0.30 |
| | Air Flow Rate(H/M/L) | cmm | 5.6/5/4.6 | 7/ 6.5 /6 | 9.5/ 9/8.5 | 12/10.5/10.3 |
| | | cfm | 198/177/162.5 | 247/230/212 | 336/318/300 | 424/371/364 |
| | Drive | | Direct | Direct | Direct | Direct |
| | Speed control | | Phase Control | Phase Control | Phase Control | Phase Control |
| Temperature Control | | | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystyrene | Foamed polystyrene | Foamed polystyrene | Foamed polystyrene |
| Air Filter | | | Resin Net(washable) | Resin Net(washable) | Resin Net(washable) | Resin Net(washable) |
| Safety Device | | | Fuse | Fuse | Fuse | Fuse |
| Pipe Connections | Liquid Side | mm(inch) | Ø6.35(1/4) | Ø6.35(1/4) | Ø6.35(1/4) | Ø9.52(3/8) |
| | Gas Side | mm(inch) | Ø12.7(1/2) | Ø12.7(1/2) | Ø12.7(1/2) | Ø15.88(5/8) |
| | Drain Pipe(ID) | mm | 20 | 20 | 20 | 20 |
| Net Weight | | kg(lbs) | 7(15.4) | 7(15.4) | 7(15.4) | 12(26.5) |
| Noise Level(Sound Press, 1.5m, H/M/L) | | dBA±3 | 33/30/27 | 34/31/28 | 36/33/30 | 40/37/34 |
| Power Supply | | Ø / V / Hz | 1 / 220 / 60 | 1 / 220 / 60 | 1 / 220 / 60 | 1 / 220 / 60 |
| Refrigerant Control | | | LEV | LEV | LEV | LEV |
| Power cable | | mm ² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C |
| Transmission cable | | mm ² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C |
| Panel Color | | | White | White | White | White |
| Stuffing Quantity | Without S/parts | 20/40ft | 340/720 | 340/720 | 340/720 | 270/540 |

Notes:-

1. Capacities are based on the following conditions:

- Cooling
- Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.:Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860

Btu/h = kW x 3414

cfm = m³/min x 35.3

1.1.2 Heat Pump

Heat Pumps(60Hz)

| Model | | | Unit | LRNN072SRA(L)0 | LRNN092SRA(L)0 | LRNN122SRA(L)0 | LRNN182STA(L)0 |
|---|----------------------|------------|--|--|--|--|----------------|
| Cooling Capacity | | | W | 2,100 | 2,600 | 3,500 | 5,300 |
| | | | kcal/h | 1,806 | 2,235 | 3,009 | 4,557 |
| | | | Btu/h | 7,165 | 8,871 | 11,942 | 18,084 |
| Heating Capacity | | | W | 2,363 | 2,925 | 3,938 | 5,963 |
| | | | kcal/h | 2,031 | 2,515 | 3,385 | 5,127 |
| | | | Btu/h | 8,061 | 9,980 | 13,435 | 20,345 |
| Dimensions (W*H*D) | Body | mm | 900*285*156 | 900*285*156 | 900*285*156 | 1090*314*172 | |
| | | inch | 35.4*11.2*6.1 | 35.4*11.2*6.1 | 35.4*11.2*6.1 | 42.9*12.4*6.8 | |
| Coil | Rows x Columns x FPI | | 2*12*20 | 2*12*20 | 2*12*20 | 2*13*20 | |
| | Face Area | m² | 0.13 | 0.13 | 0.13 | 0.23 | |
| Fan | Type | | Cross Flow Fan | Cross Flow Fan | Cross Flow Fan | Cross Flow Fan | |
| | Motor Output | W | 15 | 15 | 15 | 25 | |
| | Running Current | A | 0.20 | 0.20 | 0.20 | 0.30 | |
| | Air Flow Rate(H/M/L) | cmm | 5.6/5/4.6 | 7/ 6.5 /6 | 9.5/ 9/8.5 | 12/10.5/10.3 | |
| | | cfm | 198/177/162.5 | 247/230/212 | 336/318/300 | 424/371/364 | |
| | Drive | | Direct | Direct | Direct | Direct | |
| | Speed control | | Phase Control | Phase Control | Phase Control | Phase Control | |
| Temperature Control | | | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystrene | Foamed polystrene | Foamed polystrene | Foamed polystrene | |
| Air Filter | | | Resin Net(washable) | Resin Net(washable) | Resin Net(washable) | Resin Net(washable) | |
| Safety Device | | | Fuse | Fuse | Fuse | Fuse | |
| Pipe Connections | Liquid Side | mm(inch) | Ø6.35(1/4) | Ø6.35(1/4) | Ø6.35(1/4) | Ø9.52(3/8) | |
| | Gas Side | mm(inch) | Ø12.7(1/2) | Ø12.7(1/2) | Ø12.7(1/2) | Ø15.88(5/8) | |
| | Drain Pipe(ID) | mm | 20 | 20 | 20 | 20 | |
| Net Weight | | kg(lbs) | 7(15.4) | 7(15.4) | 7(15.4) | 12(26.5) | |
| Noise Level(Sound Press, 1.5m, H/M/L) | | dBA±3 | 33/30/27 | 34/31/28 | 36/33/30 | 40/37/34 | |
| Power Supply | | Ø / V / Hz | 1 / 220 / 60 | 1 / 220 / 60 | 1 / 220 / 60 | 1 / 220 / 60 | |
| Refrigerant Control | | | LEV | LEV | LEV | LEV | |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C | |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | |
| Panel Color | | | White | White | White | White | |
| Stuffing Quantity | Without S/parts | 20/40ft | 340/720 | 340/720 | 340/720 | 270/540 | |

Notes:-

1. Capacities are based on the following conditions:

- Cooling
- Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Heating
- Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 - Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.:Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3414
 cfm = m³/min x 35.3

2. Functions

Indoor Unit

Operation ON/OFF by Remote controller

Sensing the Room Temperature

- Room temperature sensor. (THERMISTOR)

Room temperature control

- Maintains the room temperature in accordance with the Setting temperature

Starting Current Control

- Indoor fan is delayed for 5 seconds at the starting.

Time Delay Safety Control

- Restarting is inhibited for approx. 3 minutes.

Indoor Fan Speed Control

- High, Med, Low, Chaos

Operation indication Lamps (LED)

- ① --- Lights up in operation
- ☆ --- Lights up in Sleep Mode
- ⌚ --- Lights up in Timer Mode
- ✱ --- Lights up in Deice Mode
- BB --- Indicate the setting temperature.

Health Dehumidification Operation

- Intermittent operation of fan at low speed.

Sleep Mode Auto Control

- The fan is switched to low(Cooling), med(Heating) speed.
- The unit will be stopped after 1, 2, 3, 4, 5, 6, 7 hours.

Natural Air Control by CHAOS Logic

- The fan is switched to intermittent or irregular operation
- The fan speed is automatically switched from high to low speed.

Airflow Direction Control

- The louver can be set at the desired position or swing up and down automatically.

Auto Restart

- Although the air conditioner is turned off by a power failure, it is restarted automatically to previous operation mode after power supply.

Deice (defrost) control (Heating)

- Both the indoor and outdoor fan stops during deicing.
- Hot start after deice ends.

Hot-start Control (Heating)

- The indoor fan does not rotate until the evaporator piping temperature will be reached at 28°C.

3. Operation Details

(1) The function of main control

• DISPLAY

Operation Indicator

- On while in appliance operation, off while in appliance pause

Sleep Timer Indicator

- On while in sleep timer mode, off when sleep timer cancel or appliance operation pause

Timer Indicator

- On while in timer mode (on/off), off when timer mode is completed or canceled

Defrost Indicator

- Off except when hot start during heating mode operation or while in defrost control

■ Cooling Mode Operation

- When the intake air temperature reaches 0.5°C below the setting temperature, the compressor and the outdoor fan stop.
- When it reaches 0.5°C above the setting temperature, they start to operate again.

| | |
|----------------------------|------------------------------|
| Compressor ON Temperature | ➤ Setting Temperature +0.5°C |
| Compressor OFF Temperature | ➤ Setting Temperature -0.5°C |
- While in compressor running, operating with the airflow speed set by the remote control. While in compressor not running, operating with the low airflow speed regardless of the setting.

■ Soft Dry Operation Mode

- When the dehumidification operation input by the remote control is received, the intake air temperature is detected and the setting temperature is automatically set according to the intake air temperature.

| | |
|--|---------------------------------|
| 26°C ≤ Intake Air Temperature | ➤ 25°C |
| 24°C ≤ Intake Intake Air Temperature <26°C | ➤ Intake Air Temperature -1°C |
| 18°C ≤ Intake Intake Air Temperature <24°C | ➤ Intake Air Temperature -0.5°C |
| Intake Air Temperature <18°C | ➤ 18°C |
- While in compressor off, the indoor fan repeats low airflow speed and pause.
- While the intake air temperature is between compressor on temperature and compressor off temperature, 10-min dehumidification operation and 4-min compressor off repeat.

| | |
|----------------------------|------------------------------|
| Compressor ON temperature | ➤ Setting Temperature +0.5°C |
| Compressor OFF temperature | ➤ Setting Temperature -0.5°C |
- In 10-min dehumidification operation, the indoor fan operates with the low airflow speed.

■ Heating Mode Operation

- When the intake air temperature reaches +3°C above the setting temperature, the compressor is turned off. When below the setting temperature, the compressor is turned on.

| | |
|----------------------------|---------------------------|
| Compressor ON temperature | ➤ Setting temperature |
| Compressor OFF temperature | ➤ Setting temperature+3°C |
- While in compressor on, the indoor fan is off when the indoor pipe temperature is below 26°C, when above 28°C, it operates with the low or setting airflow speed.

- While in compressor off, the indoor fan is off when the indoor pipe temperature is below 33°C, when above 35°C, it operates with the low airflow speed.
- If overloaded while in heating mode operation, in order to prevent the compressor from OLP operation, the outdoor fan is turned on/off according to the indoor pipe temperature
- While in defrost control, both of the indoor and outdoor fans are turned off.

■ Fuzzy Operation

- When any of operation mode is not selected like the moment of the power on or when 3 hrs has passed since the operation off, the operation mode is selected.
- When determining the operation mode, the compressor, the outdoor fan, and the 4 way valve are off and only the indoor fan is operated for 15 seconds. Then an operation mode is selected according to the intake air temperature at that moment as follows.
 - 24°C ≤ Intake Air Temperature ➤ Fuzzy Operation for Cooling
 - 21°C ≤ Intake Air Temperature <24°C ➤ Fuzzy Operation for Dehumidification
 - Intake Air Temperature <21°C ➤ Fuzzy Operation for Heating
- If any of the operation modes among cooling / dehumidification / heating mode operations is carried out for 10 sec or longer before Fuzzy operation, the mode before Fuzzy operation is operated.

1) Fuzzy Operation for Cooling

- According to the setting temperature selected by Fuzzy rule, when the intake air temperature is 0.5°C or more below the setting temperature, the compressor is turned off. When 0.5°C or more above the setting temperature, the compressor is turned on.
 - Compressor ON Temperature ➤ Setting Temperature +0.5°C
 - Compressor OFF Temperature ➤ Setting Temperature – 0.5°C
- At the beginning of Fuzzy mode operation, the setting temperature is automatically selected according to the intake air temperature at that time.
 - 26°C ≤ Intake Air Temperature ➤ 25°C
 - 24°C ≤ Intake Air Temperature <26°C ➤ Intake Air Temperature – 1°C
 - 22°C ≤ Intake Air Temperature <24°C ➤ Intake Air Temperature – 0.5°C
 - 18°C ≤ Intake Air Temperature <22°C ➤ Intake Air Temperature
 - Intake Air Temperature <18°C ➤ 18°C
- When the Fuzzy key (Temperature Control key) is input after the initial setting temperature is selected, the Fuzzy key value and the intake air temperature at that time are compared to select the setting temperature automatically according to the Fuzzy rule.
- While in Fuzzy operation, the airflow speed of the indoor fan is automatically selected according to the temperature.

2) Fuzzy Operation for Dehumidification

- According to the setting temperature selected by Fuzzy rule, when the intake air temperature is 0.5°C or more below the setting temperature, the compressor is turned off. When 0.5°C or more above the setting temperature, the compressor is turned on.
 - Compressor ON Temperature ➤ Setting Temperature + 0.5°C
 - Compressor OFF Temperature ➤ Setting Temperature – 0.5°C
- At the beginning of Fuzzy mode operation, the setting temperature is automatically selected according to the intake air temperature at that time.
 - 26°C ≤ Intake Air Temperature ➤ 25°C
 - 24°C ≤ Intake Air Temperature <26°C ➤ Intake Air Temperature – 1°C
 - 22°C ≤ Intake Air Temperature <24°C ➤ Intake Air Temperature – 0.5°C
 - 18°C ≤ Intake Air Temperature <22°C ➤ Intake Air Temperature
 - Intake Air Temperature <18°C ➤ 18°C
- When the Fuzzy key (Temperature Control key) is input after the initial setting temperature is selected, the Fuzzy key value and the intake air temperature at that time are compared to select the setting temperature automatically according to the Fuzzy rule.
- While in Fuzzy operation, the airflow speed of the indoor fan repeats the low airflow speed or pause as in dehumidification operation.

3) Fuzzy Operation for Heating

- According to the setting temperature selected by Fuzzy rule, when the intake air temperature is 3°C or more above the setting temperature, the compressor is turned off. When below the setting temperature, the compressor is turned on.
 - Compressor ON Temperature ➤ Setting Temperature
 - Compressor OFF Temperature ➤ Setting Temperature + 3°C
- At the beginning of Fuzzy mode operation, the setting temperature is automatically selected according to the intake air temperature at that time.
 - 20°C ≤ Intake Air Temperature ➤ Intake Air Temperature + 0.5°C
 - Intake Air Temperature <20°C ➤ 20°C
- When the Fuzzy key (Temperature Control key) is input after the initial setting temperature is selected, the Fuzzy key value and the intake air temperature at that time are compared to select the setting temperature automatically according to the Fuzzy rule.
- While in Fuzzy operation, the airflow speed of the indoor fan is set to the high or the medium according to the intake air temperature and the setting temperature.

■ Airflow Speed Selection

- The airflow speed of the indoor fan is set to high, medium, low, or chaos (auto) by the input of the airflow speed selection key on the remote control.

■ On-Timer Operation

- When the set time is reached after the time is input by the remote control, the appliance starts to operate.
 - The timer LED is on when the on-timer is input. It is off when the time set by the timer is reached.
 - If the appliance is operating at the time set by the timer, the operation continues.
- While in Fuzzy operation, the airflow speed of the indoor fan is automatically selected according to the temperature.

■ Off-Timer Operation

- When the set time is reached after the time is input by the remote control, the appliance stops operating.
- The timer LED is on when the off-timer is input. It is off when the time set by the timer is reached.
- If the appliance is on pause at the time set by the timer, the pause continues.

■ Off-Timer <=> On-Timer Operation

- When the set time is reached after the on/off time is input by the remote control, the on/off-timer operation is carried out according to the set time.

■ Sleep Timer Operation

- When the sleep time is reached after < 1,2,3,4,5,6,7,0(cancel) hour > is input by the remote control while in appliance operation, the operation of the appliance stops.
- While the appliance is on pause, the sleep timer mode cannot be input.
- While in cooling mode operation, 30 min later since the start of the sleep timer, the setting temperature increases by 1°C. After another 30 min elapse, it increases by 1°C again.
- When the sleep timer mode is input while in cooling cycle mode, the airflow speed of the indoor fan is set to the low.
- When the sleep timer mode is input while in heating cycle mode, the airflow speed of the indoor fan is set to the medium.

■ Chaos Swing Mode

- By the Chaos Swing key input, the upper/lower vane automatically operates with the Chaos Swing or they are fixed to the desired direction.
- While in Chaos Swing mode, the angles of cooling and heating cycle operations are different.

■ Chaos Natural Wind Mode

- When the Chaos Natural Wind mode is selected and then operated, the high, medium, or low speed of the airflow mode is operated for 2~15 sec. randomly by the Chaos Simulation.

■ Jet Cool Mode Operation

- While in heating mode or Fuzzy operation, the Jet Cool key cannot be input. When it is input while in the other mode operation (cooling, dehumidification, ventilation), the Jet Cool mode is operated.
- In the Jet Cool mode, the indoor fan is operated at super-high speed for 30 min at cooling mode operation.
- In the Jet Cool mode operation, the room temperature is controlled to the setting temperature, 18°C.
- When the sleep timer mode is input while in the Jet Cool mode operation, the Jet Cool mode has the priority.
- When the Jet Cool key is input, the upper/lower vanes are reset to those of the initial cooling mode and then operated in order that the air outflow could reach further.

■ Auto restart

- In case the power comes on again after a power failure, Auto Restarting Operation is the function to operate procedures automatically to the previous operating conditions.

■ Forced Operation

- Operation procedures when the remote control can't be used.
- The operation will be started if the power button is pressed.
- If you want to stop operation, re-press the button.

| | Room temperature $\geq 24^{\circ}\text{C}$ | $21^{\circ}\text{C} \leq \text{Room temperature} < 24^{\circ}\text{C}$ | Room temperature $< 21^{\circ}\text{C}$ |
|---------------------|--|--|---|
| Operating mode | Cooling | Healthy Dehumidification | Heating |
| Indoor FAN Speed | High | High | High |
| Setting Temperature | 22°C | 23°C | 24°C |

- While in forced operation, the key input by the remote control has no effect and the buzzer sounds 10 times to indicate the forced operation.

■ Test operation

- During the TEST OPERATION, the unit operates in cooling mode at high speed fan, regardless of room temperature and resets in 18 ± 1 minutes.
- During test operation, if remote controller signal is received, the unit operates as remote controller sets. If you want to use this operation, open the front panel upward and Press the power button let it be pressed for about 3 seconds.
- If you want to stop the operation, re-press the button.

■ Protection of the evaporator pipe from frosting

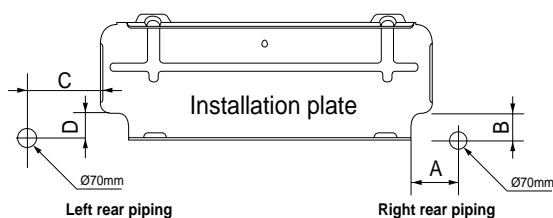
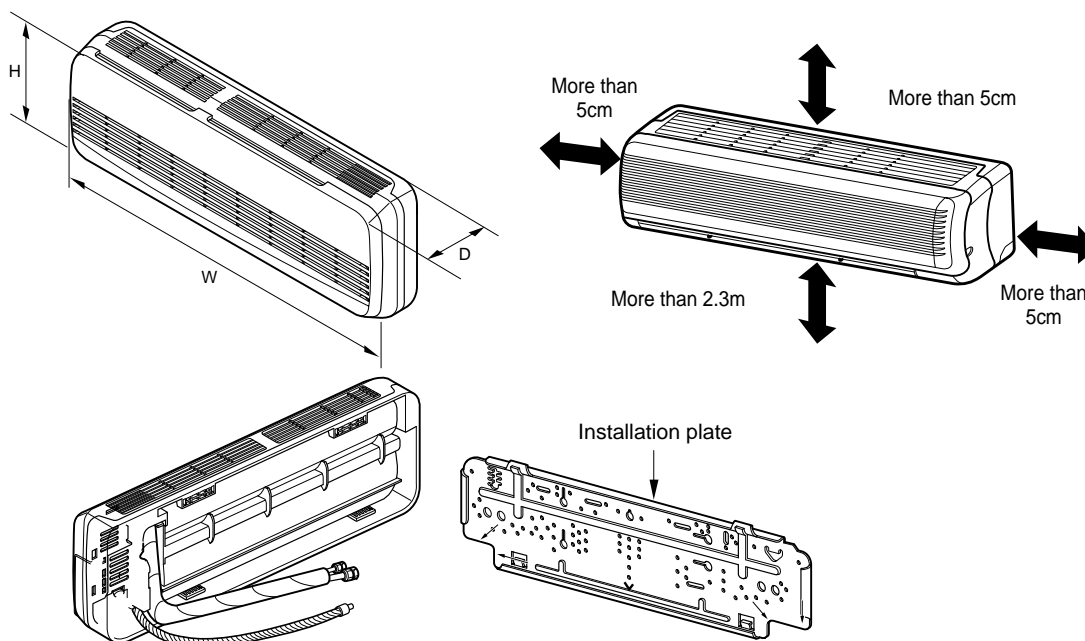
- If the indoor pipe temperature is below 0°C in 7 min. after the compressor operates without any pause while in cooling cycle operation mode, the compressor and the outdoor fan are turned off in order to protect the indoor evaporator pipe from frosting.
- When the indoor pipe temperature is 7°C and higher after 3 min. pause of the compressor, the compressor and the outdoor fan is turned on according to the condition of the room temperature.

■ Buzzer Sounding Operation

- When the appliance-operation key is input by the remote control, the short "beep-beep-" sounds.
- When the appliance-pause key is input by the remote control, the long "beep—" sounds.

4. Dimensional Drawings

LRNV076SRA(L)0/LRNN076SRA(L)0/LRNV072SRA(L)0/LRNN072SRA(L)0
 LRNV096SRA(L)0/LRNN096SRA(L)0/LRNV092SRA(L)0/LRNN092SRA(L)0
 LRNV126SRA(L)0/LRNN126SRA(L)0/LRNV122SRA(L)0/LRNN122SRA(L)0
 LRNV186STA(L)0/LRNN186STA(L)0/LRNV182STA(L)0/LRNN182STA(L)0

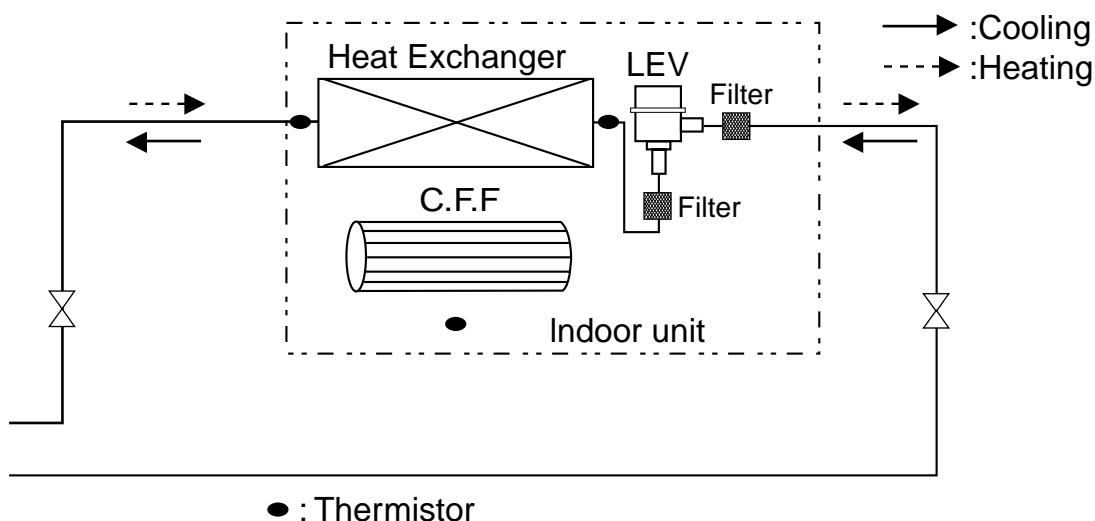


| CHASSIS (Grade) | Distance(mm) | | | |
|--------------------|--------------|----|-----|----|
| | A | B | C | D |
| SR (7k/9k/12k) | 0 | 40 | 20 | 40 |
| ST (18k) | 105 | 0 | 210 | 0 |

(unit:mm)

| Model | W | H | D |
|--|------|-----|-----|
| LRNV076SRA(L)0/LRNN076SRA(L)0 LRNV072SRA(L)0/LRNN072SRA(L)0 | 900 | 285 | 156 |
| LRNV096SRA(L)0/LRNN096SRA(L)0 LRNV092SRA(L)0/LRNN092SRA(L)0 | | | |
| LRNV126SRA(L)0/LRNN126SRA(L)0 LRNV122SRA(L)0/LRNN122SRA(L)0 | | | |
| LRNV186STA(L)0/LRNN186STA(L)0 LRNV182STA(L)0/LRNN182STA(L)0 | 1090 | 314 | 172 |

5. Piping Diagrams

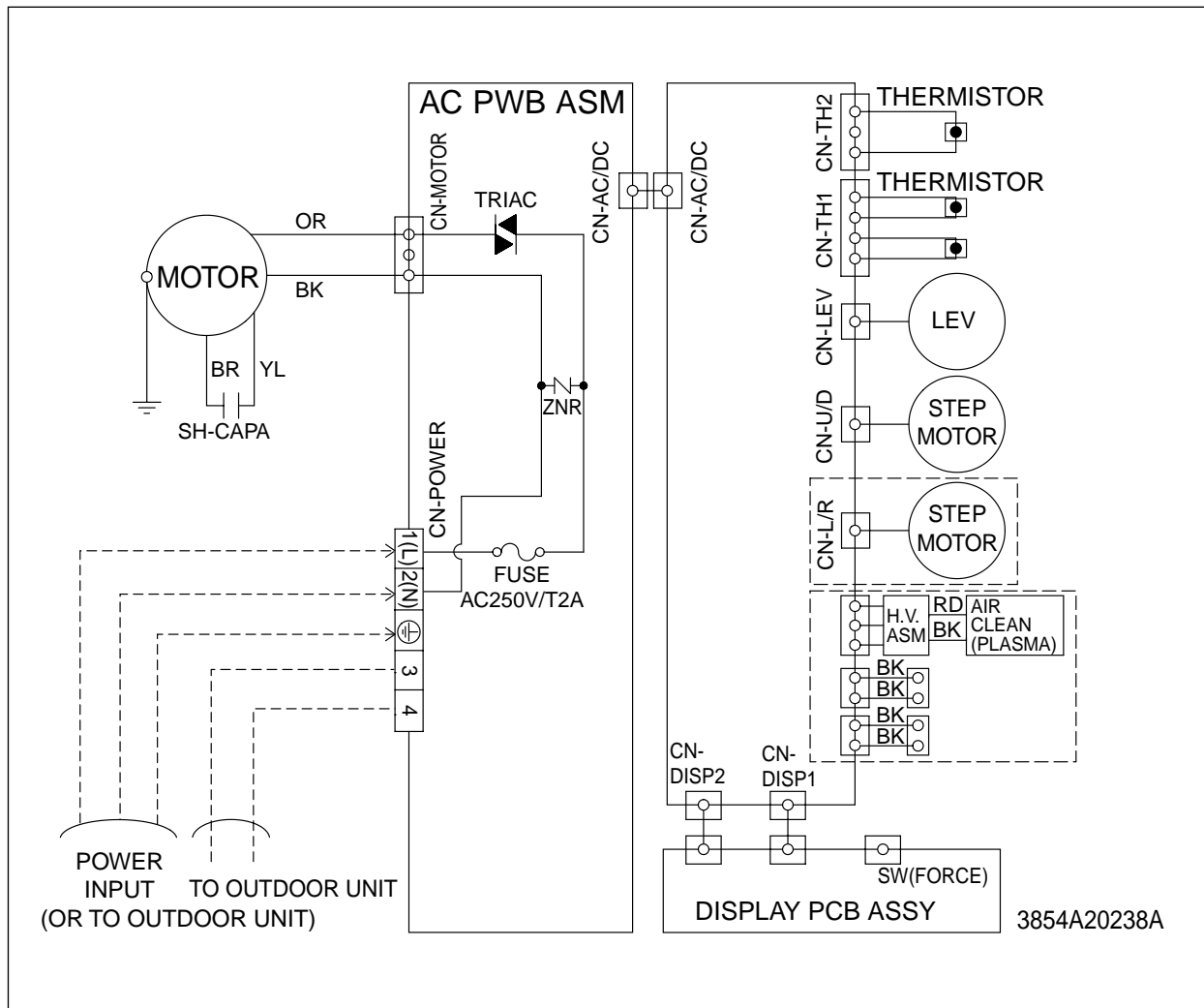


Refrigerant pipe connection port diameter

[unit: mm(inch)]

| MODEL | GAS | LIQUID |
|---|-------------|------------|
| LRNV076SRA(L)0/LRNN076SRA(L)0/LRNV072SRA(L)0/LRNN072SRA(L)0 | Ø12.7(1/2) | Ø6.35(1/4) |
| LRNV096SRA(L)0/LRNN096SRA(L)0/LRNV092SRA(L)0/LRNN092SRA(L)0 | Ø12.7(1/2) | Ø6.35(1/4) |
| LRNV126SRA(L)0/LRNN126SRA(L)0/LRNV122SRA(L)0/LRNN122SRA(L)0 | Ø12.7(1/2) | Ø6.35(1/4) |
| LRNV186STA(L)0/LRNN186STA(L)0/LRNV182STA(L)0/LRNN182STA(L)0 | Ø15.88(5/8) | Ø9.52(3/8) |

6. Wiring Diagrams



| CONNECTOR NUMBER | SPEC | COLOR | DESCRIPTION |
|------------------|-----------------------|-------|---|
| CN-POWER | AC POWER SUPPLY | BLACK | AC POWER LINE INPUT FOR INDOOR CONTROLLER |
| CN-MOTOR | AC FAN MOTOR OUTPUT | WHITE | MOTOR OUTPUT OF PHASE CONTROL |
| CN-AC/DC | AC/DC CONNECTION | GRAY | CONNECTION BETWEEN AC PCB AND DC PCB |
| CN-COMM | COMMUNICATION | BLACK | CONNECTION BETWEEN INDOOR AND OUTDOOR |
| CN-DISP1 | DISPLAY | BLUE | DISPLAY OF INDOOR STATUS |
| CN-DISP2 | DISPLAY | WHITE | DISPLAY OF INDOOR STATUS |
| CN-LEV | LEV OUTPUT | WHITE | LEV CONTROL OUTPUT |
| CN-UD | STEP MOTOR | WHITE | STEP MOTOR OUTPUT |
| CN-TH1 | ROOM/PIPE SENSOR | WHITE | ROOM AND PIPE THERMISTOR |
| CN-PIPEOUT | DISCHARGE PIPE SENSOR | RED | DISCHARGE PIPE THERMISTOR |

7. Disassembly of the parts

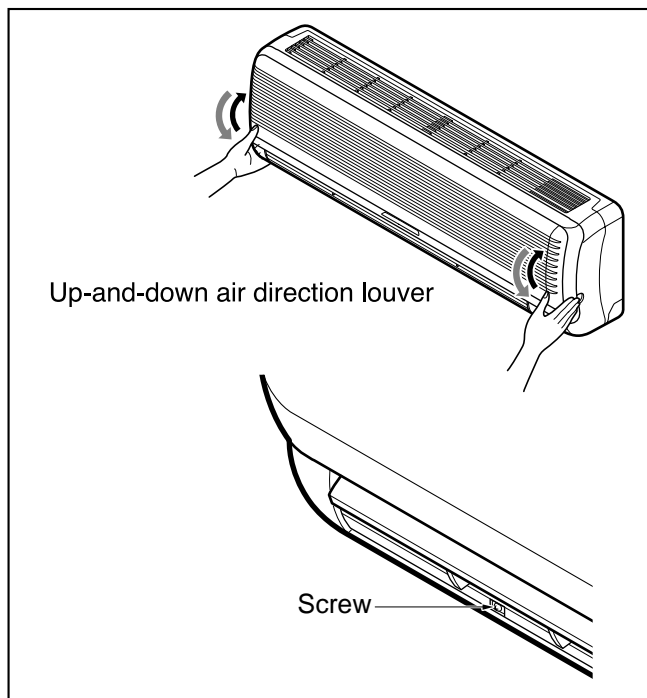
Warning :

Disconnect the unit from power supply before making any checks.

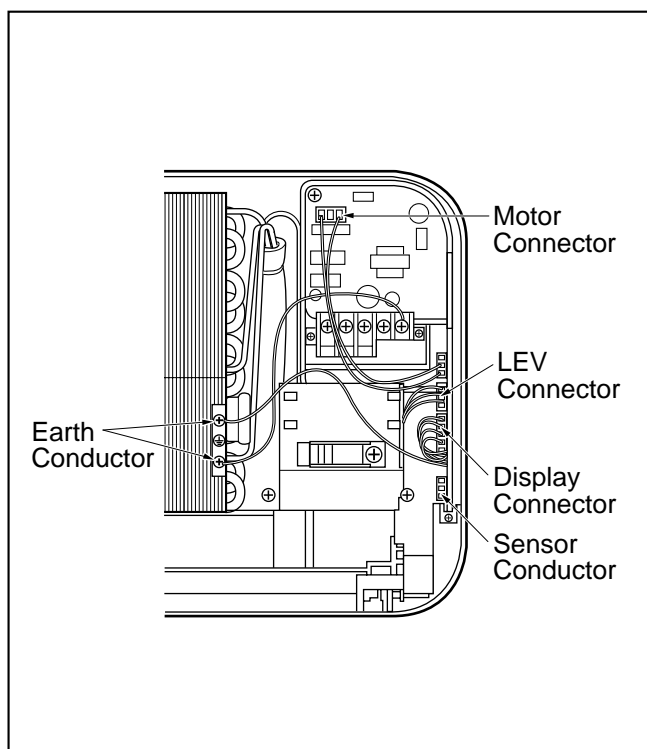
Be sure the power switch is set to "OFF".

To remove the Grille from the Chassis.

- Set the up-and-down air discharge louver to open position (horizontally) by finger pressure.
- Remove the securing screws
- To remove the Grille, pull the lower left and right side of the grille toward you (slightly tilted) and lift it straight upward.

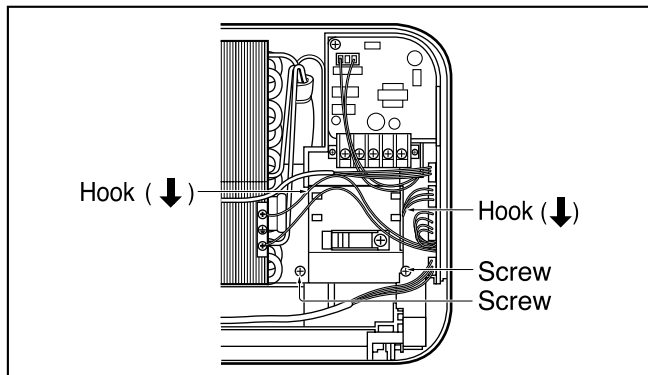


1. To remove the sensor, housing connect, earth connector & step motor connector with sensor holder, Motor, Evaporator & P.C.B.



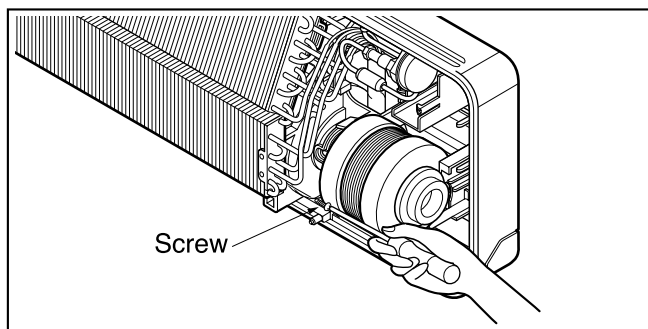
2. To remove the Control Box.

- Remove securing screws.
- Pull the control box out from the chassis carefully.



3. To remove the Discharge Grille.

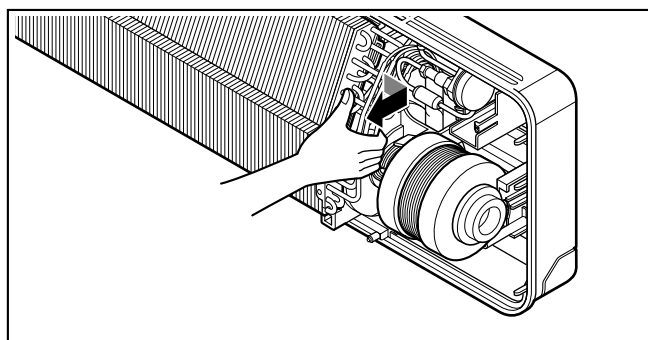
- Pull the discharge grille out from the chassis carefully.



4. To remove the Evaporator.

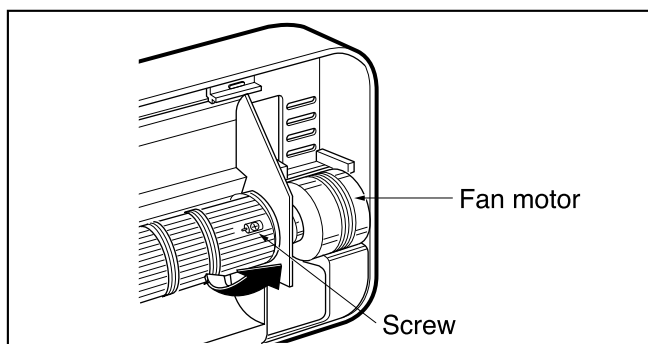
- Remove screws securing the evaporator and the holder eva.

- Unhook the tab on the right inside of the chassis at the same time, slightly pull the evaporator toward you until the tab is clear of the slot.

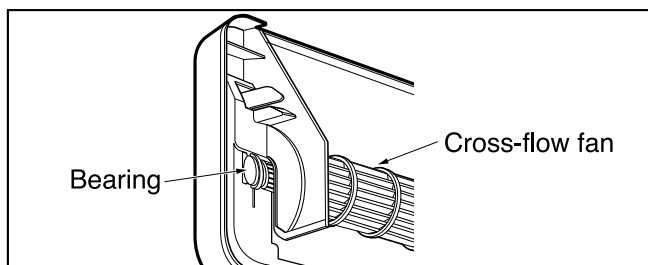


5. To remove the Cross-Flow Fan

- Loosen the screw securing the cross-flow fan to the fan motor (do not remove).
- Lift up the right side of the cross-flow fan and the fan motor, separate the fan motor from the cross-flow fan.



- Remove the left end of the cross-flow fan from the self-aligning bearing.



Art Cool Type(Deluxe)

| | |
|--|------------|
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1. Specifications

1.1 50Hz

1.1.1 Cooling Only

Cooling Only (50Hz)

| Model | | | Unit | LRNV076SU*0 | LRNV096SU*0 | LRNV126SU*0 |
|---|----------------------|------------|---|--|--|-------------|
| Cooling Capacity | | | W | 2,100 | 2,600 | 3,500 |
| | | | kcal/h | 1,806 | 2,235 | 3,009 |
| | | | Btu/h | 7,165 | 8,871 | 11,942 |
| Heating Capacity | | | W | - | - | - |
| | | | kcal/h | - | - | - |
| | | | Btu/h | - | - | - |
| Dimensions (W*H*D) | Body | mm | 1030*290*153 | 1030*290*153 | 1030*290*153 | |
| | | inch | 40.6*11.4*6.1 | 40.6*11.4*6.1 | 40.6v11.4*6.1 | |
| Coil | Rows x Columns x FPI | | 2*12*19 | 2*12*19 | 2*12*19 | |
| | Face Area | m² | 0.13 | 0.13 | 0.13 | |
| Fan | Type | | Cross Flow Fan | Cross Flow Fan | Cross Flow Fan | |
| | Motor Output | W | 8 | 8 | 15 | |
| | Running Current | A | 0.17 | 0.17 | 0.20 | |
| | Air Flow Rate(H/M/L) | cmm | 6.5/ 6.2 /6 | 7.7/ 7 /6.4 | 8.8/ 8 /7.5 | |
| | | cfm | 230/219/212 | 272/247/226 | 311/283/265 | |
| | Drive | | Direct | Direct | Direct | |
| | Speed control | | Phase Control | Phase Control | Phase Control | |
| Temperature Control | | | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystyrene | Foamed polystyrene | Foamed polystyrene | |
| Air Filter | | | Resin Net(washable) | Resin Net(washable) | Resin Net(washable) | |
| Safety Device | | | Fuse | Fuse | Fuse | |
| Pipe Connections | Liquid Side | mm(inch) | Ø6.35(1/4) | Ø6.35(1/4) | Ø6.35(1/4) | |
| | Gas Side | mm(inch) | Ø12.7(1/2) | Ø12.7(1/2) | Ø12.7(1/2) | |
| | Drain Pipe(ID) | mm | 20 | 20 | 20 | |
| Net Weight | | kg(lbs) | 8(18.5) | 8(18.5) | 9.5(20.9) | |
| Noise Level (Sound Press,1.5m, H/M/L) | | dBA±3 | 33/30/27 | 34/31/28 | 36/33/30 | |
| Power Supply | | Ø / V / Hz | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 | |
| Refrigerant Control | | | LEV | LEV | LEV | |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C | |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | |
| Front Panel('*' Position) | | | R:Mirror, M:Metal, B:Blue, D:Wood, W: White, C:Cherry | | | |
| Stuffing Quantity | Without S/parts | 20/40ft | 324/684 | 324/684 | 324/684 | |

Notes:-

1. Capacities are based on the following conditions:

- Cooling • Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
- Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
- Interconnecting Piping Length 7.5m
- Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.: Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m³/min x 35.3

1.1.2 Heat Pump

Heat Pump (50Hz)

| Model | | | Unit | LRNV186S3*0 | LRNV246S3*0 |
|---|----------------------|------------|---|--|-------------|
| Cooling Capacity | | | W | 5,300 | 7,000 |
| | | | kcal/h | 4,557 | 6,019 |
| | | | Btu/h | 18,084 | 23,885 |
| Heating Capacity | | | W | - | - |
| | | | kcal/h | - | - |
| | | | Btu/h | - | - |
| Dimensions (W*H*D) | Body | mm | 1170*315*170 | 1170*315*170 | |
| | | inch | 46.1*12.4*6.8 | 46.1*12.4*6.8 | |
| Coil | Rows x Columns x FPI | | 2*13*20 | 2*13*20 | |
| | Face Area | m² | 0.15 | 0.15 | |
| Fan | Type | | Cross Flow Fan | Cross Flow Fan | |
| | Motor Output | W | 30 | 30 | |
| | Running Current | A | 0.25 | 0.25 | |
| | Air Flow Rate(H/M/L) | cmm | 12.6/11.5/10 | 15/14/13 | |
| | | cfm | 445/406/353 | 530/494/459 | |
| | Drive | | Direct | Direct | |
| | Speed control | | Phase Control | Phase Control | |
| Temperature Control | | | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystyrene | Foamed polystyrene | |
| Air Filter | | | Resin Net(washable) | Resin Net(washable) | |
| Safety Device | | | Fuse | Fuse | |
| Pipe Connections | Liquid Side | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) | |
| | Gas Side | mm(inch) | Ø15.88(5/8) | Ø15.88(5/8) | |
| | Drain Pipe(ID) | mm | 20 | 20 | |
| Net Weight | | kg(lbs) | 13(28.6) | 13(28.6) | |
| Noise Level (Sound Press,1.5m, H/M/L) | | dBA±3 | 42/40/37 | 44/41/38 | |
| Power Supply | | Ø / V / Hz | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 | |
| Refrigerant Control | | | LEV | LEV | |
| Power cable | | mm² | CV2.0 x 3C | CV2.0 Xx 3C | |
| Transmission cable | | mm² | CVV-SB 1.25 x 2C | CVV-SB 1.25 x 2C | |
| Front Panel(*' Position) | | | R:Mirror, M:Metal, B:Blue, D:Wood, W: White, C:Cherry | | |
| Stuffing Quantity | Without S/parts | 20/40ft | 231/490 | 231/490 | |

Notes:-

1. Capacities are based on the following conditions:

- Cooling • Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
- Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
- Interconnecting Piping Length 7.5m
- Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.: Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

1.2 60Hz

1.2.1 Cooling Only

Cooling Only (60Hz)

| Model | | | Unit | LRNN076SU*0 | LRNN096SU*0 | LRNN126SU*0 |
|---|----------------------|------------|---|--|--|-------------|
| Cooling Capacity | | | W | 2,100 | 2,600 | 3,500 |
| | | | kcal/h | 1,806 | 2,235 | 3,009 |
| | | | Btu/h | 7,165 | 8,871 | 11,942 |
| Heating Capacity | | | W | 2,363 | 2,925 | 3,938 |
| | | | kcal/h | 2,031 | 2,515 | 3,385 |
| | | | Btu/h | 8,061 | 9,980 | 13,435 |
| Dimensions (W*H*D) | Body | mm | 1030*290*153 | 1030*290*153 | 1030*290*153 | |
| | | inch | 40.6*11.4*6.1 | 40.6*11.4*6.1 | 40.6*11.4*6.1 | |
| Coil | Rows x Columns x FPI | | 2*12*19 | 2*12*19 | 2*12*19 | |
| | Face Area | m² | 0.13 | 0.13 | 0.13 | |
| Fan | Type | | Cross Flow Fan | Cross Flow Fan | Cross Flow Fan | |
| | Motor Output | W | 8 | 8 | 15 | |
| | Running Current | A | 0.17 | 0.17 | 0.20 | |
| | Air Flow Rate(H/M/L) | cmm | 6.5/ 6.2 /6 | 7.7/ 7 /6.4 | 8.8/ 8 /7.5 | |
| | | cfm | 230/219/212 | 272/247/226 | 311/283/265 | |
| | Drive | | Direct | Direct | Direct | |
| | Speed control | | Phase Control | Phase Control | Phase Control | |
| Temperature Control | | | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystyrene | Foamed polystyrene | Foamed polystyrene | |
| Air Filter | | | Resin Net(washable) | Resin Net(washable) | Resin Net(washable) | |
| Safety Device | | | Fuse | Fuse | Fuse | |
| Pipe Connections | Liquid Side | mm(inch) | Ø6.35(1/4) | Ø6.35(1/4) | Ø6.35(1/4) | |
| | Gas Side | mm(inch) | Ø12.7(1/2) | Ø12.7(1/2) | Ø12.7(1/2) | |
| | Drain Pipe(ID) | mm | 20 | 20 | 20 | |
| Net Weight | | kg(lbs) | 8(18.5) | 8(18.5) | 9.5(20.9) | |
| Noise Level (Sound Press,1.5m, H/M/L) | | dBA±3 | 33/30/27 | 34/31/28 | 36/33/30 | |
| Power Supply | | Ø / V / Hz | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 | |
| Refrigerant Control | | | LEV | LEV | LEV | |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C | CV2.0 X 3C | |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | |
| Front Panel(*' Position) | | | R:Mirror, M:Metal, B:Blue, D:Wood, W: White, C:Cherry | | | |
| Stuffing Quantity | Without S/parts | 20/40ft | 324/684 | 324/684 | 324/684 | |

Notes:-

1. Capacities are based on the following conditions:

- Cooling
 - Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Heating
 - Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 - Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.: Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m³/min x 35.3

1.2.2 Heat Pump

Heat Pump (60Hz)

| Model | | | Unit | LRNN186S3*0 | LRNN246S3*0 |
|---|----------------------|------------|---|--|-------------|
| Cooling Capacity | | | W | 5,300 | 7,000 |
| | | | kcal/h | 4,557 | 6,019 |
| | | | Btu/h | 18,084 | 23,885 |
| Heating Capacity | | | W | 5,963 | 7,875 |
| | | | kcal/h | 5,127 | 6,771 |
| | | | Btu/h | 20,345 | 26,870 |
| Dimensions (W*H*D) | Body | mm | 1170*315*170 | 1170*315*170 | |
| | | inch | 46.1*12.4*6.8 | 46.1*12.4*6.8 | |
| Coil | Rows x Columns x FPI | | 2*13*20 | 2*13*20 | |
| | Face Area | m² | 0.15 | 0.15 | |
| Fan | Type | | Cross Flow Fan | Cross Flow Fan | |
| | Motor Output | W | 30 | 30 | |
| | Running Current | A | 0.25 | 0.25 | |
| | Air Flow Rate(H/M/L) | cmm | 12.6/11.5/10 | 15/14/13 | |
| | | cfm | 445/406/353 | 530/494/459 | |
| | Drive | | Direct | Direct | |
| | Speed control | | Phase Control | Phase Control | |
| Temperature Control | | | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystyrene | Foamed polystyrene | |
| Air Filter | | | Resin Net(washable) | Resin Net(washable) | |
| Safety Device | | | Fuse | Fuse | |
| Pipe Connections | Liquid Side | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) | |
| | Gas Side | mm(inch) | Ø15.88(5/8) | Ø15.88(5/8) | |
| | Drain Pipe(ID) | mm | 20 | 20 | |
| Net Weight | | kg(lbs) | 13(28.6) | 13(28.6) | |
| Noise Level (Sound Press,1.5m, H/M/L) | | dBA±3 | 42/40/37 | 44/41/38 | |
| Power Supply | | Ø / V / Hz | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 | |
| Refrigerant Control | | | LEV | LEV | |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C | |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | |
| Front Panel('*' Position) | | | R:Mirror, M:Metal, B:Blue, D:Wood, W: White, C:Cherry | | |
| Stuffing Quantity | Without S/parts | 20/40ft | 231/490 | 231/490 | |

Notes:-

1. Capacities are based on the following conditions:

- Cooling
 - Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Heating
 - Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 - Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.: Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

2. Functions

Indoor Unit

Operation ON/OFF by Remote controller

Sensing the Room Temperature

- Room temperature sensor. (THERMISTOR)

Room temperature control

- Maintains the room temperature in accordance with the Setting Temp.

Starting Current Control

- Indoor fan is delayed for 5 sec at the starting.

Time Delay Safety Control

- Restarting is inhibited for approx. 3 minutes.

Indoor Fan Speed Control

- High, Med, Low, CHAOS, JET COOL

Soft Dry Operation Mode

- Intermittent operation of fan at low speed.

Sleep Mode Auto Control

- The fan is switched to low(Cooling), med(Heating) speed.
- The unit will be stopped after 1, 2, 3, 4, 5, 6, 7 hours.

Natural Air Control by CHAOS Logic

- The fan is switched to intermittent or irregular operation
- The fan speed is automatically switched from high to low speed.

Airflow Direction Control

- The louver can be set at the desired position or swing up and down automatically.

Defrost(Deice) control (Heating)

- Both the indoor and outdoor fan stops during defrosting.

Hot-start Control (Heating)

- The indoor fan does not rotate until the evaporator pipe temperature will be reached at 28°C.

3. Operation Details

1. MAIN UNIT FUNCTION

• DISPLAY

Operation Indicator

- ON while in appliance operation, OFF while in appliance pause.
- Flashing while in disconnection or short in Thermistor. (3 sec off / 0.5 sec on)

Sleep Timer Indicator

- ON while in sleep timer mode, OFF when sleep timer cancel or appliance operation pause.

Timer Indicator

- ON while in timer mode (on/off), OFF when timer mode is completed or canceled.

Defrost Indicator

- OFF except when hot start during heating mode operation or while in defrost control.

■ Cooling Mode Operation

- When the intake air temperature reaches 0.5°C below the setting temp, the compressor and the outdoor fan stop.
- When it reaches 0.5°C above the setting temp, they start to operate again.

| | |
|---------------------|----------------------|
| Compressor ON Temp | ➤ Setting Temp+0.5°C |
| Compressor OFF Temp | ➤ Setting Temp-0.5°C |
- While in compressor running, operating with the airflow speed set by the remote control. While in compressor not running, operating with the low airflow speed regardless of the setting.

■ Healthy Dehumidification Mode

- When the dehumidification operation input by the remote control is received, the intake air temperature is detected and the setting temp is automatically set according to the intake air temperature.

| | |
|--------------------------------------|-------------------------|
| 26°C ≤ Intake Air Temp | ➤ 25°C |
| 24°C ≤ Intake Intake Air Temp < 26°C | ➤ Intake Air Temp-1°C |
| 18°C ≤ Intake Intake Air Temp < 24°C | ➤ Intake Air Temp-0.5°C |
| Intake Air Temp < 18°C | ➤ 18°C |
- While in compressor off, the indoor fan repeats low airflow speed and pause.
- While the intake air temp is between compressor on temp. and compressor off temp., 10-min dehumidification operation and 4-min compressor off repeat.

| | |
|----------------------|----------------------|
| Compressor ON Temp. | ➤ Setting Temp+0.5°C |
| Compressor OFF Temp. | ➤ Setting Temp-0.5°C |
- In 10-min dehumidification operation, the indoor fan operates with the low airflow speed.

■ Heating Mode Operation

- When the intake air temp reaches +3°...above the setting temp, the compressor is turned off. When below the setting temp, the compressor is turned on.
Compressor ON Temp. ➤ Setting Temp.
Compressor OFF Temp. ➤ Setting Temp.+3°C
- While in compressor on, the indoor fan is off when the indoor pipe temp. is below 20°C, when above 28°C, it operates with the low or setting airflow speed. When the indoor pipe temp is between 20°C and 28°C, it operates with Super-Low(while in sleep mode, with the medium airflow speed).
- While in compressor off, the indoor fan is off when the indoor pipe temp is below 33°C, when above 35°C, it operates with the low airflow speed.
- If overloaded while in heating mode operation, in order to prevent the compressor from OLP operation, the outdoor fan is turned on/off according to the indoor pipe temp.
- While in defrost control, both of the indoor and outdoor fans are turned off.

■ Defrost Control

- While in heating mode operation in order to protect the evaporator pipe of the outdoor unit from freezing, reversed to cooling cycle to defrost the evaporator pipe of the outdoor unit.
- After 40 min heating mode operation, at 4 min interval, whether to carry out defrost control or not and the time of defrost control are determined according to the following conditions.
 - 1) While in heating mode operation, the maximum of the indoor pipe temperature is measured and it is compared with the present indoor pipe temperature to get the difference of the indoor pipe temperatures (=the maximum temperature of indoor pipe ? the present temperature of indoor pipe), according to which, whether to carry out defrost control or not is determined.
 - 2) According to the need of defrost control shown above and the elapsed time of heating mode operation at that moment, the defrost control time is determined.
 - 3) When the determined time of defrost control is below 7 min, heating mode operation continues without carrying out defrost control. According to the procedure stated above, the determination is made again. When the defrost control time is 7 min or longer, defrost control is then carried out.
- While in defrost control, the minimum temp of the indoor pipe is measured and it is compared with the present temp of the indoor pipe to get the difference of the indoor pipe temperatures (=the present temperature of the indoor pipe ? the minimum temperature of the indoor pipe). When the difference is 5°C or higher, defrost control is completed and heating mode operation is carried out.
- While in defrost control, if the defrost time determined before the start of defrost control is completed, defrost control stops and heating mode operation is carried out regardless of the above condition.
- When the indoor pipe temp is 42°C or above, defrost control is not carried out even if the condition is one of the defrost conditions above.
- While in defrost control, the compressor is on and the indoor fan, the outdoor fan, and the 4 way valve are off.

■ Fuzzy Operation

- When any of operation mode is not selected like the moment of the power on or when 3 hrs has passed since the operation off, the operation mode is selected.
- When determining the operation mode, the compressor, the outdoor fan, and the 4 way valve are off and only the indoor fan is operated for 15 seconds. Then an operation mode is selected according to the intake air temp at that moment as follows.

| | |
|---|--|
| $24^{\circ}\text{C} \leq \text{Intake Air Temp}$ | ► Fuzzy Operation for Cooling |
| $21^{\circ}\text{C} \leq \text{Intake Air Temp} < 24^{\circ}\text{C}$ | ► Fuzzy Operation for Dehumidification |
| $\text{Intake Air Temp} < 21^{\circ}\text{C}$ | ► Fuzzy Operation for Heating |
- If any of the operation modes among cooling / dehumidification / heating mode operations is carried out for 10 sec or longer before Fuzzy operation, the mode before Fuzzy operation is operated.

1) Fuzzy Operation for Cooling

- According to the setting temperature selected by Fuzzy rule, when the intake air temp is 0.5°C or more below the setting temp, the compressor is turned off. When 0.5°C or more above the setting temp, the compressor is turned on.

| | |
|---------------------|--|
| Compressor ON Temp | ► Setting Temp $+0.5^{\circ}\text{C}$ |
| Compressor OFF Temp | ► Setting Temp $+ 0.5^{\circ}\text{C}$ |
- At the beginning of Fuzzy mode operation, the setting temperature is automatically selected according to the intake air temp at that time.

| | |
|---|---|
| $26^{\circ}\text{C} \leq \text{Intake Air Temp}$ | ► 25°C |
| $24^{\circ}\text{C} \leq \text{Intake Air Temp} < 26^{\circ}\text{C}$ | ► Intake Air Temp $+ 1^{\circ}\text{C}$ |
| $22^{\circ}\text{C} \leq \text{Intake Air Temp} < 24^{\circ}\text{C}$ | ► Intake Air Temp $+ 0.5^{\circ}\text{C}$ |
| $18^{\circ}\text{C} \leq \text{Intake Air Temp} < 22^{\circ}\text{C}$ | ► Intake Air Temp |
| $\text{Intake Air Temp} < 18^{\circ}\text{C}$ | ► 18°C |
- When the Fuzzy key (Temperature Control key) is input after the initial setting temperature is selected, the Fuzzy key value and the intake air temperature at that time are compared to select the setting temperature automatically according to the Fuzzy rule.
- While in Fuzzy operation, the airflow speed of the indoor fan is automatically selected according to the temperature.

2) Fuzzy Operation for Dehumidification

- According to the setting temperature selected by Fuzzy rule, when the intake air temp is 0.5°C or more below the setting temp, the compressor is turned off. When 0.5°C or more above the setting temp, the compressor is turned on.

| | |
|---------------------|--|
| Compressor ON Temp | ► Setting Temp $+ 0.5^{\circ}\text{C}$ |
| Compressor OFF Temp | ► Setting Temp $+0.5^{\circ}\text{C}$ |
- At the beginning of Fuzzy mode operation, the setting temperature is automatically selected according to the intake air temp at that time.

| | |
|---|--|
| $26^{\circ}\text{C} \leq \text{Intake Air Temp}$ | ► 25°C |
| $24^{\circ}\text{C} \leq \text{Intake Air Temp} < 26^{\circ}\text{C}$ | ► Intake Air Temp $+1^{\circ}\text{C}$ |
| $22^{\circ}\text{C} \leq \text{Intake Air Temp} < 24^{\circ}\text{C}$ | ► Intake Air Temp $+0.5^{\circ}\text{C}$ |
| $18^{\circ}\text{C} \leq \text{Intake Air Temp} < 22^{\circ}\text{C}$ | ► Intake Air Temp |
| $\text{Intake Air Temp} < 18^{\circ}\text{C}$ | ► 18°C |
- When the Fuzzy key (Temperature Control key) is input after the initial setting temperature is selected, the Fuzzy key value and the intake air temperature at that time are compared to select the setting temperature automatically according to the Fuzzy rule.
- While in Fuzzy operation, the airflow speed of the indoor fan repeats the low airflow speed or pause as in dehumidification operation.

3) Fuzzy Operation for Heating

- According to the setting temperature selected by Fuzzy rule, when the intake air temp is 3°C or more above the setting temp, the compressor is turned off. When below the setting temp, the compressor is turned on.
Compressor ON Temp ➤ Setting Temp
Compressor OFF Temp ➤ Setting Temp + 3°C
- At the beginning of Fuzzy mode operation, the setting temperature is automatically selected according to the intake air temp at that time.
20°C ≤ Intake Air Temp ➤ Intake Air Temp + 0.5°C
Intake Air Temp < 20°C ➤ 20°C
- When the Fuzzy key (Temperature Control key) is input after the initial setting temperature is selected, the Fuzzy key value and the intake air temperature at that time are compared to select the setting temperature automatically according to the Fuzzy rule.
- While in Fuzzy operation, the airflow speed of the indoor fan is set to the high or the medium according to the intake air temperature and the setting temperature.

■ Airflow Speed Selection

- The airflow speed of the indoor fan is set to high, medium, low, or chaos (auto) by the input of the airflow speed selection key on the remote control.

■ On-Timer Operation

- When the set time is reached after the time is input by the remote control, the appliance starts to operate.
- The timer LED is on when the on-timer is input. It is off when the time set by the timer is reached.
- If the appliance is operating at the time set by the timer, the operation continues.

■ Off-Timer Operation

- When the set time is reached after the time is input by the remote control, the appliance stops operating.
- The timer LED is on when the off-timer is input. It is off when the time set by the timer is reached.
- If the appliance is on pause at the time set by the timer, the pause continues.

■ Off-Timer ↔ On-Timer Operation

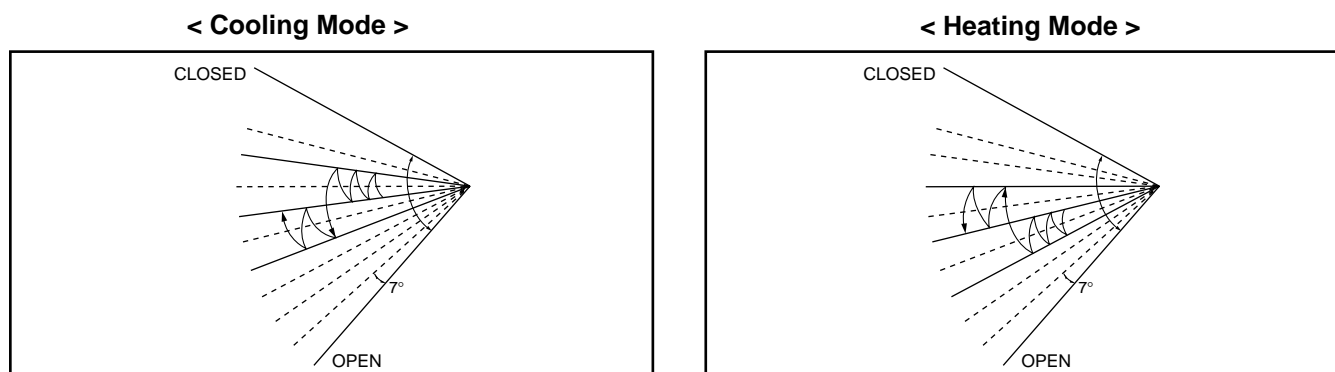
- When the set time is reached after the on/off time is input by the remote control, the on/off-timer operation is carried out according to the set time.

■ Sleep Timer Operation

- When the sleep time is reached after <1,2,3,4,5,6,7,0(cancel) hr> is input by the remote control while in appliance operation, the operation of the appliance stops.
- While the appliance is on pause, the sleep timer mode cannot be input.
- While in cooling mode operation, 30 min later since the start of the sleep timer, the setting temperature increases by 1°C. After another 30 min elapse, it increases by 1°C again.
- When the sleep timer mode is input while in cooling cycle mode, the airflow speed of the indoor fan is set to the low.
- When the sleep timer mode is input while in heating cycle mode, the airflow speed of the indoor fan is set to the medium.

■ Chaos Swing Mode

- By the Chaos Swing key input, the upper/lower vane automatically operates with the Chaos Swing or they are fixed to the desired direction.
- While in Chaos Swing mode, the angles of cooling and heating cycle operations are different.



■ Chaos Natural Wind Mode

- When the Chaos Natural Wind mode is selected and then operated, the high, medium, or low speed of the airflow mode is operated for 2~15 sec. randomly by the Chaos Simulation.

■ Jet Cool Mode Operation

- While in heating mode or Fuzzy operation, the Jet Cool key cannot be input. When it is input while in the other mode operation (cooling, dehumidification, ventilation), the Jet Cool mode is operated.
- In the Jet Cool mode, the indoor fan is operated at super-high speed for 30 min at cooling mode operation.
- In the Jet Cool mode operation, the room temperature is controlled to the setting temperature, 18°C.
- When the sleep timer mode is input while in the Jet Cool mode operation, the Jet Cool mode has the priority.
- When the Jet Cool key is input, the upper/lower vanes are reset to those of the initial cooling mode and then operated in order that the air outflow could reach further.

■ Forced Operation

- Operation procedures when the remote control can't be used.
- The operation will be started if the power button is pressed.
- If you want to stop operation, re-press the button.

| | Room temperature $\geq 24^{\circ}\text{C}$ | $21^{\circ}\text{C} \leq \text{Room temperature} < 24^{\circ}\text{C}$ | Room temperature $< 21^{\circ}\text{C}$ |
|---------------------|--|--|---|
| Operating mode | Cooling | Healthy Dehumidification | Heating |
| Indoor FAN Speed | High | High | High |
| Setting Temperature | 22°C | 23°C | 24°C |

- While in forced operation, the key input by the remote control has no effect and the buzzer sounds 10 times to indicate the forced operation.

■ Test operation

- During the TEST OPERATION, the unit operates in cooling mode at high speed fan, regardless of room temperature and resets in 18±1 minutes.
- During test operation, if remote controller signal is received, the unit operates as remote controller sets. If you want to use this operation, open the front panel upward and Press the power button let it be pressed for about 3 seconds.
- If you want to stop the operation, re-press the button.

■ Auto restart

- In case the power comes on again after a power failure, Auto Restarting Operation is the function to operate procedures automatically to the previous operating conditions.

■ Air Cleaner Operation

- When an air cleaner function is selected during Air Conditioner operation
 - Plasma air cleaner function will be operated while in any operation mode with selecting the function.
 - The function is to be stopped while it is operating with selecting the function.
- When an air cleaner function is selected during operation off
 - The function will be only operated.
- When inlet grille of air conditioner is opened during plasma operation, High Voltage Generator(H.V.B) is to be stopped. When inlet grille of air conditioner is closed during plasma operation, High Voltage Generator(H.V.B) will be operated again.

■ Remote Control Operation Mode

- When the remote control is selected by the slide switch on the main unit, the appliance operates according to the input by the remote control.

■ Protection of the evaporator pipe from frosting

- If the indoor pipe temp is below 0°C in 7 min. after the compressor operates without any pause while in cooling cycle operation mode, the compressor and the outdoor fan are turned off in order to protect the indoor evaporator pipe from frosting.
- When the indoor pipe temp is 7°C or higher after 3 min. pause of the compressor, the compressor and the outdoor fan is turned on according to the condition of the room temperature.

■ Auto Clean

- Open the door on the remote control. Press the Auto Clean Button. Close the door on the remote control. Now each time that you press the start/stop button, the Air conditioner operates clean function automatically.

■ Display Luminosity

- The Display Luminosity can be adjusted by using the remote control. Press the start/stop button to start the unit. Open the door on the remote control, press the 2ndF button and, press display luminosity button. Display will be dark. Press the button again to set bright display.

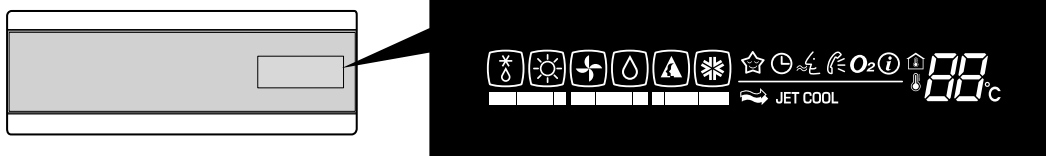
■ Buzzer Sounding Operation

- When the appliance-operation key is input by the remote control, the short "beep" sounds.
- When the appliance-pause key is input by the remote control, the long "beep—" sounds.
- When an except operation and pause key is input by the remote control, the short "beep" sounds.

4. Display Function

Signal Receptor

Each Icon turns on when the unit is operated, then the only Icon outline to be operated is bright.



| | | |
|--|--------------------------------------|--|
| | Cooling Mode | Lights up during Cooling operation. (Outline) |
| | Auto Operation Mode | Lights up during Auto operation. (Outline) |
| | Healthy Dehumidification Mode | Lights up during Healthy Dehumidification operation. (Outline) |
| | Heating Mode | Lights up during Heating operation. (Heat Pump model only) (Outline) |
| | Defrost Mode | Lights up during Defrost control or Hot Start in Heating operation. (Outline) |
| | Air circulation Mode | Lights up during Air Circulation operation. (Outline) |
| | Sleep Mode | Lights up during Sleep Mode operation. |
| | Timer Mode | Lights up during Timer operation. |
| | Auto Cleaning Mode | Lights up during Auto Cleaning reservation. |

JET COOL Jet Cool Mode Lights up during Jet Cool Operation.

Fan Speed (Low) Lights up when Fan speed is low.

Fan Speed (Medium) Lights up when Fan speed is Medium.

Fan Speed (High) Lights up when Fan speed is High.

Fan Speed (Chaos) Lights up when Fan speed is Chaos.

Desire temperature indicator For cooling,dehumidification,heating modes it display Desired temperature

| | | |
|--------------------|-----------|---------------------------------|
| • Cooling | : 18~30°C | • AI : Auto Operation |
| • Dehumidification | : 18~30°C | • Po : Jet Cool |
| • Heating | : 16~30°C | • Lo : Test Mode |
| | | • C1 : Indoor pipe sensor error |



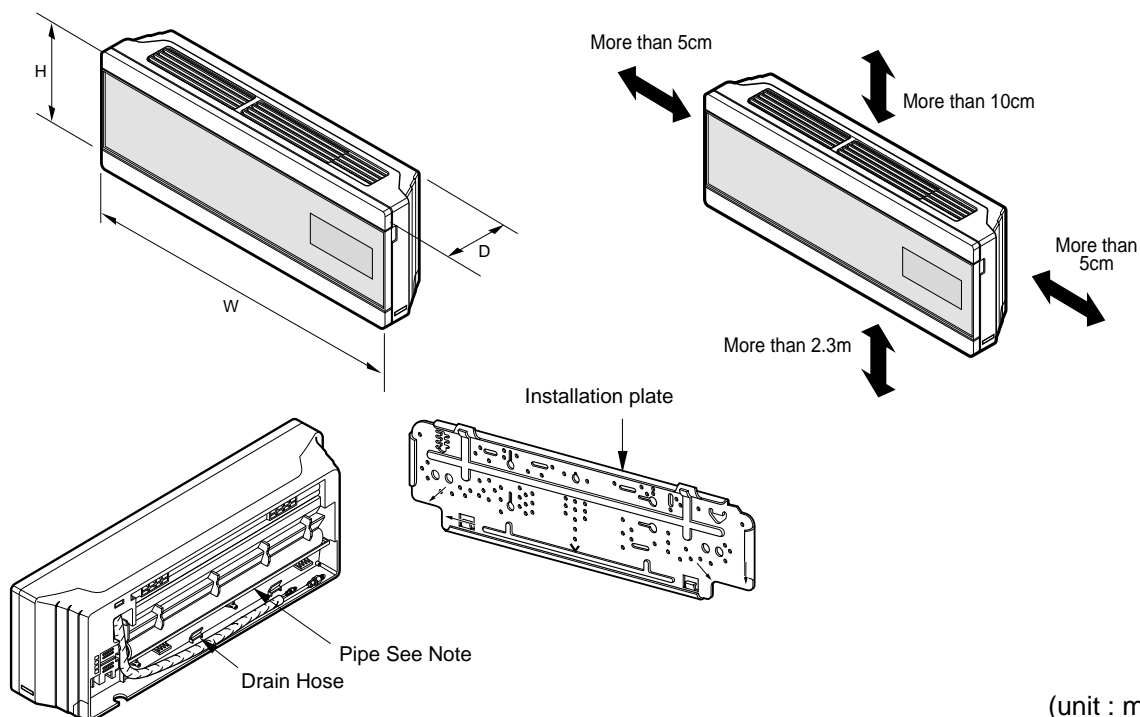
Desire temperature Icon



Indoor temperature Icon

5. Dimensional Drawings

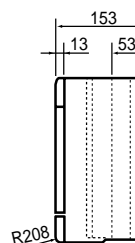
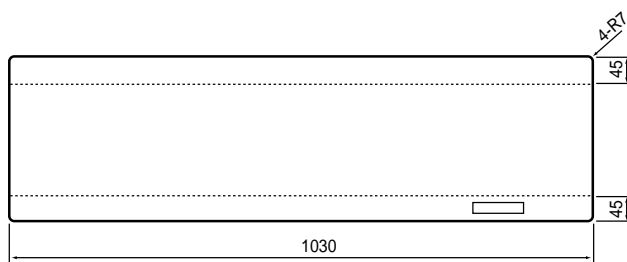
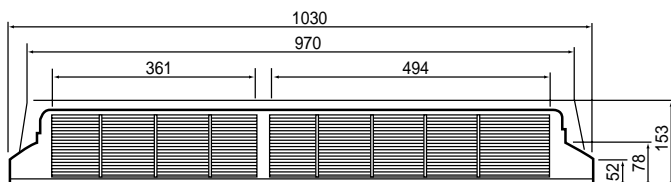
LRNV076SU*0/LRNN076SU*0/LRNV072SU*0/LRNN072SU*0
 LRNV096SU*0/LRNN096SU*0/LRNV092SU*0/LRNN092SU*0
 LRNV126SU*0/LRNN126SU*0/LRNV122SU*0/LRNN122SU*0
 LRNV186S3*0/LRNN186S3*0/LRNV182S3*0/LRNN182S3*0
 LRNV246S3*0/LRNN246S3*0/LRNV242S3*0/LRNN242S3*0



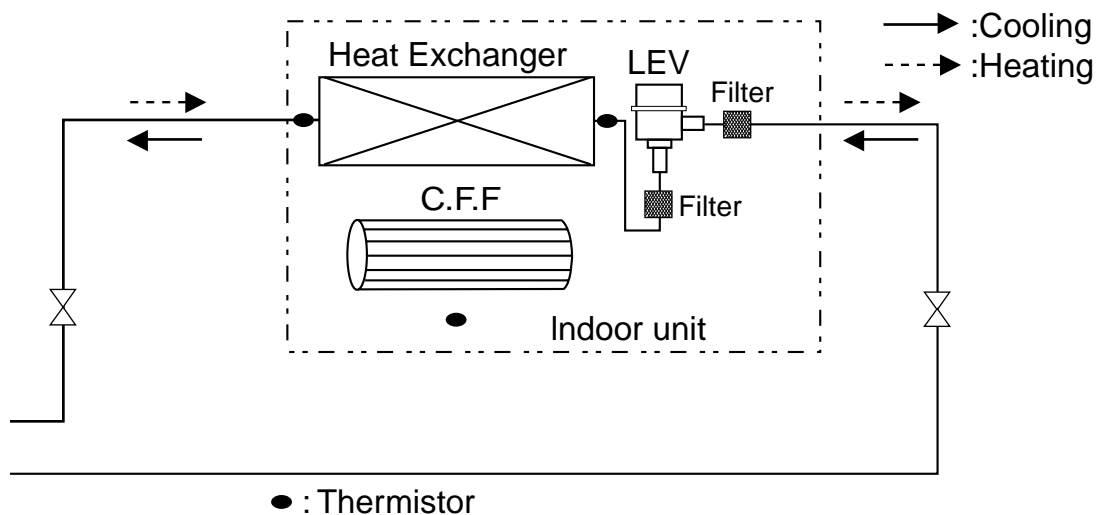
(unit : mm)

| Model | W | H | D |
|---|------|-----|-----|
| LRNV076SU*0/LRNN076SU*0/LRNV072SU*0/LRNN072SU*0 | 1030 | 290 | 153 |
| LRNV096SU*0/LRNN096SU*0/LRNV092SU*0/LRNN092SU*0 | | | |
| LRNV126SU*0/LRNN126SU*0/LRNV122SU*0/LRNN122SU*0 | | | |
| LRNV186S3*0/LRNN186S3*0/LRNV182S3*0/LRNN182S3*0 | 1170 | 315 | 170 |
| LRNV246S3*0/LRNN246S3*0/LRNV242S3*0/LRNN242S3*0 | | | |

SU



6. Piping Diagrams



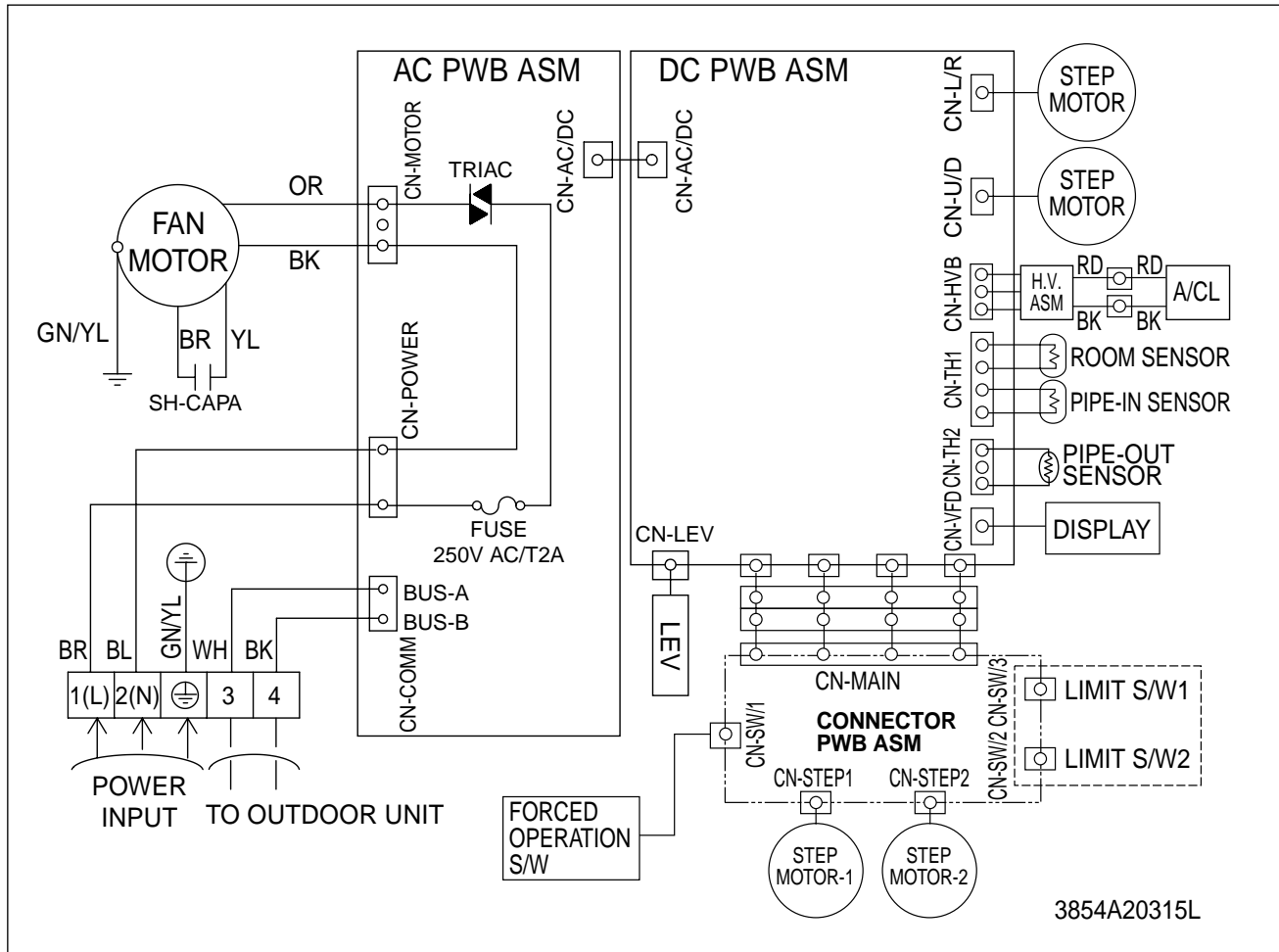
Refrigerant pipe connection port diameter

[unit: mm(inch)]

| MODEL | GAS | LIQUID |
|---|-------------|------------|
| LRNV076SU*0/LRNN076SU*0/LRNV072SU*0/LRNN072SU*0 | Ø12.7(1/2) | Ø6.35(1/4) |
| LRNV096SU*0/LRNN096SU*0/LRNV092SU*0/LRNN092SU*0 | Ø12.7(1/2) | Ø6.35(1/4) |
| LRNV126SU*0/LRNN126SU*0/LRNV122SU*0/LRNN122SU*0 | Ø12.7(1/2) | Ø6.35(1/4) |
| LRNV186S3*0/LRNN186S3*0/LRNV182S3*0/LRNN182S3*0 | Ø12.7(1/2) | Ø6.35(1/4) |
| LRNV246S3*0/LRNN246S3*0/LRNV242S3*0/LRNN242S3*0 | Ø15.88(5/8) | Ø9.52(3/8) |

*(Color):R(Mirror), M(Metal), B(Blue), D(Wood), W(White), C:Cherry

7. Wiring Diagrams



| CONNECTOR NUMBER | SPEC | COLOR | DESCRIPTION |
|------------------|-----------------------|-------|---|
| CONNECTOR NUMBER | SPEC | COLOR | DESCRIPTION |
| CN-POWER | AC POWER SUPPLY | BLACK | AC POWER LINE INPUT FOR INDOOR CONTROLLER |
| CN-MOTOR | AC FAN MOTOR OUTPUT | WHITE | MOTOR OUTPUT OF PHASE CONTROL |
| CN-COM | COMMUNICATION | BLACK | COMMUNICATION BETWEEN INDOOR AND OUTDOOR |
| CN-LEV | LEV OUTPUT | WHITE | LEV CONTROL OUTPUT |
| CN-L/R | STEP MOTOR | BLUE | STEP MOTOR OUTPUT FOR LEFT/RIGHT |
| CN-U/D | STEP MOTOR | WHITE | STEP MOTOR OUTPUT |
| CN-TH1 | ROOM/PIPE SENSOR | WHITE | ROOM & PIPE THERMISTOR |
| CN-TH2 | DISCHARGE PIPE SENSOR | RED | DISCHARGE PIPE THERMISTOR |
| CN-SUC | STEP MOTOR(FRONT) | GRAY | FRONT PANEL STEP MOTOR |
| CN-HVB | AIR PURIFIER | BLUE | AIR PURIFIER OUTPUT |
| CN-VFD | DISPLAY | WHITE | DISPLAY OF INDOOR STATUS |
| CN-CON | SAFETY CONNECTION | GRAY | SAFETY OF INDOOR STATUS |
| CN-AC/DC | AC/DC CONNECTION | GRAY | CONNECTION BETWEEN AC PCB AND DC PCB |

8. Disassembly of the parts

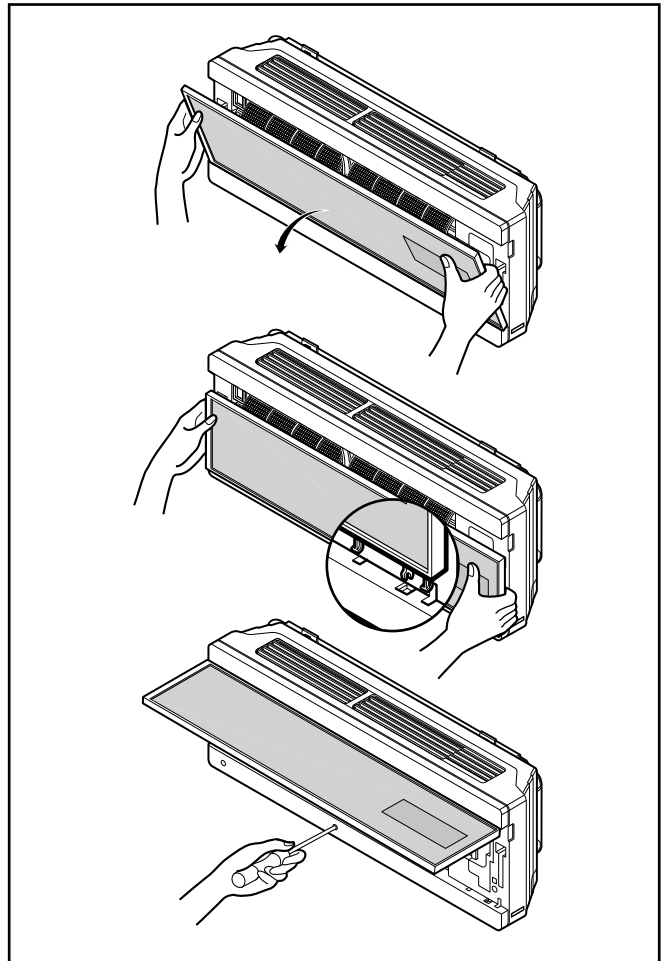
Warning :

Disconnect the unit from power supply before making any checks.

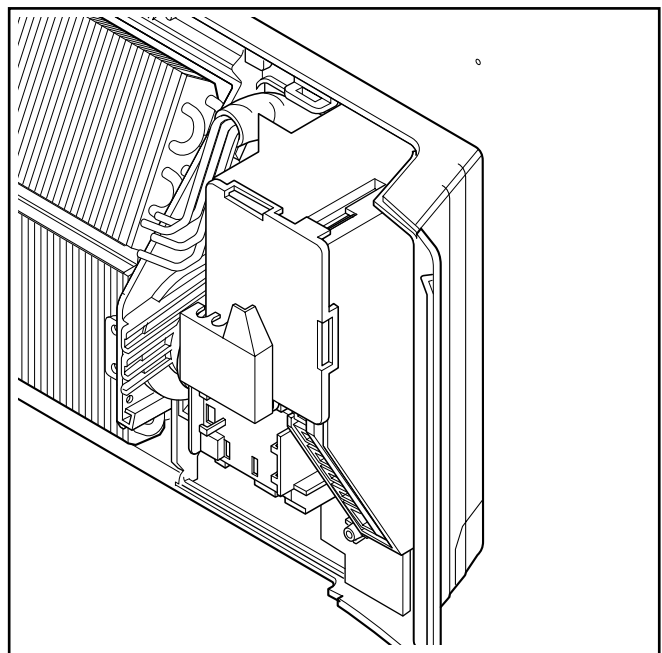
Be sure the power switch is set to "OFF".

To remove the Grille from the Chassis.

- Hold up Inlet Grille Horizontally.
- To remove the Grille, pull the lower left and right side of the grille toward you (slightly tilted) and lift it straight upward.
- To separate connector assembly and then to remove Inlet Grille assembly.

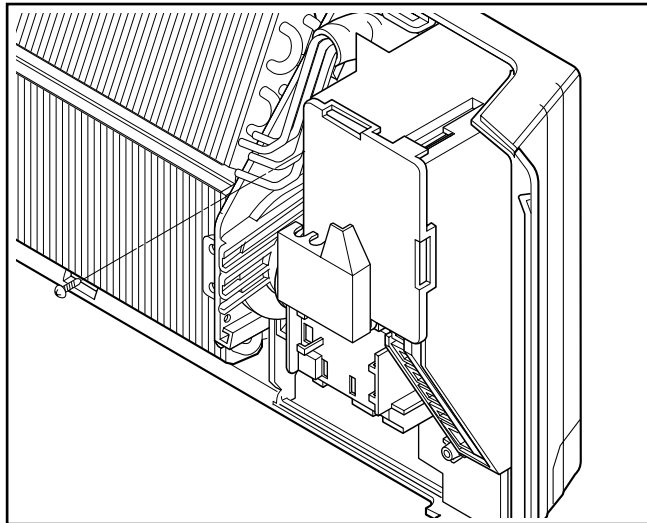


1. Before removing the control box, be sure to take out the wire screwed at the other end.



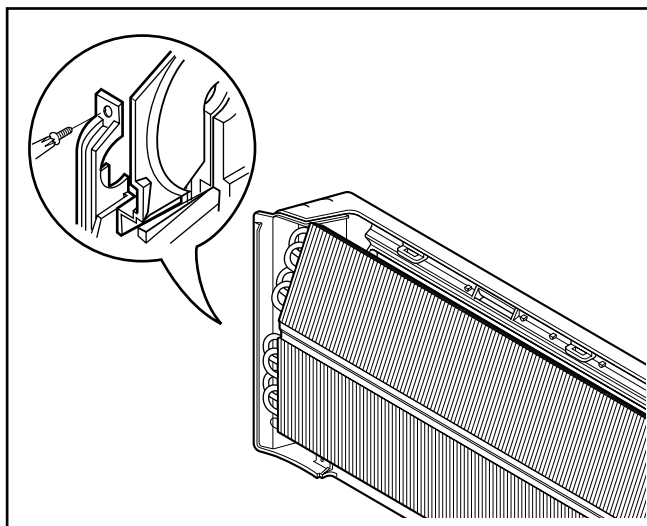
2. To remove the Control Box.

- Remove securing screws.
- Pull the control box out from the chassis carefully.



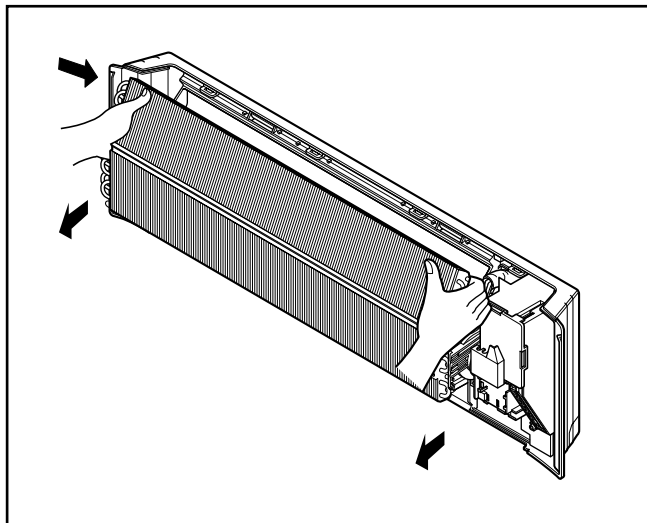
3. To remove the Discharge Grille.

- Unhook the discharge grille and pull the discharge grille out from the chassis carefully.

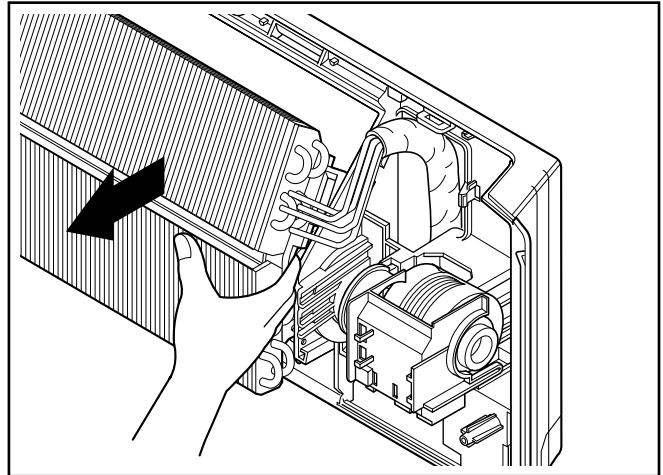


4. To remove the Evaporator.

- Remove 3 screws securing the evaporator(at the left 2EA in the Eva Holder, at the right 1EA).

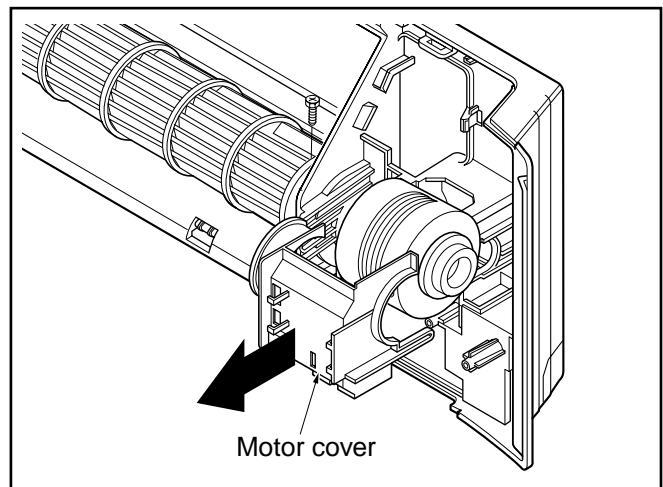


- Unhook the tab on the right inside of the chassis at the same time, slightly pull the evaporator toward you until the tab is clear of the slot.



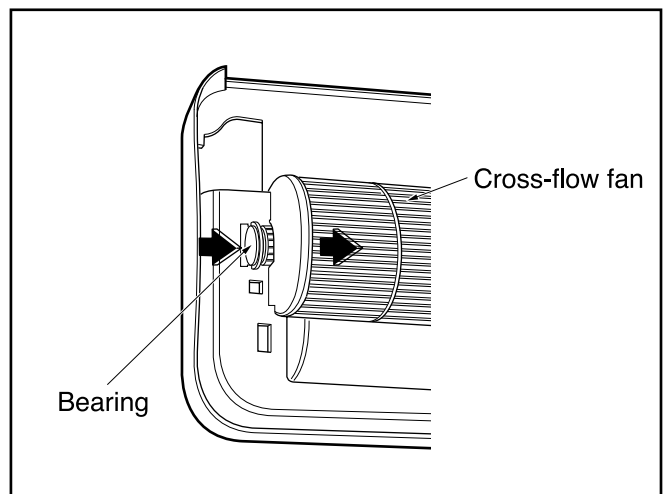
5. To remove the Motor Cover

- Remove 2 securing screw.
- Pull the motor cover out from the chassis carefully.



6. To remove the Cross-Flow Fan

- Loosen the screw securing the cross-flow fan to the fan motor (do not remove).
- Lift up the right side of the cross-flow fan and the fan motor, separate the fan motor from the cross-flow fan.
- Remove the left end of the cross-flow fan from the self-aligning bearing.



Art Cool Type

| | |
|-----------------------------------|-----|
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1. Specifications

1.1 50Hz

1.1.1 Cooling Only

Cooling Only (50Hz)

| Model | | | Unit | LRNV096SP*0 | LRNV126SP*0 |
|---|----------------------|------------|--|--|-------------|
| Cooling Capacity | | | W | 2,600 | 3,500 |
| | | | kcal/h | 2,235 | 3,009 |
| | | | Btu/h | 8,871 | 11,942 |
| Heating Capacity | | | W | - | - |
| | | | kcal/h | - | - |
| | | | Btu/h | - | - |
| Dimensions (W*H*D) | Body | mm | 570*568*137 | 570*568*137 | |
| | | inch | 22.4*22.3*5.4 | 22.4*22.3*5.4 | |
| Coil | Rows x Columns x FPI | | 1*18*21 | 1*18*21 | |
| | Face Area | m² | 0.16 | 0.16 | |
| Fan | Type | | Turbo Fan | Turbo Fan | |
| | Motor Output | W | 24 | 24 | |
| | Running Current | A | 1.5 | 1.5 | |
| | Air Flow Rate(H/M/L) | cmm | 7/ 6.5 /6 | 8.7/ 8.1 /7.5 | |
| | | cfm | 247/230/212 | 307/286/265 | |
| | Drive | | Direct | Direct | |
| | Speed control | | BLDC | BLDC | |
| Temperature Control | | | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystyrene | Foamed polystyrene | |
| Air Filter | | | Accessory | Accessory | |
| Safety Device | | | Fuse | Fuse | |
| Pipe Connections | Liquid Side | mm(inch) | Ø6.35(1/4) | Ø6.35(1/4) | |
| | Gas Side | mm(inch) | Ø12.7(1/2) | Ø12.7(1/2) | |
| | Drain Pipe(ID) | mm | 20 | 20 | |
| Net Weight | | kg(lbs) | 12(26.5) | 12(26.5) | |
| Noise Level (Sound Press,1.5m, H/M/L) | | dBA±3 | 36/33/30 | 40/36/31 | |
| Power Supply | | Ø / V / Hz | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 | |
| Refrigerant Control | | | LEV | LEV | |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C | |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | |
| Front Panel(*1 Position) | | | M: Metal, D: Wood, B: Blue | | |
| Stuffing Quantity | Without S/parts | 20/40ft | 240/540 | 240/540 | |

Notes:-

1. Capacities are based on the following conditions:

- Cooling
 - Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.: Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m³/min x 35.3

1.1.2 Heat Pump

Heat Pump (50Hz)

| Model | | Unit | LRNN096SP*0 | LRNN126SP*0 |
|---|----------------------|-----------------|--|--|
| Cooling Capacity | | W | 2,600 | 3,500 |
| | | kcal/h | 2,235 | 3,009 |
| | | Btu/h | 8,871 | 11,942 |
| Heating Capacity | | W | 2,925 | 3,938 |
| | | kcal/h | 2,515 | 3,385 |
| | | Btu/h | 9,980 | 13,435 |
| Dimensions (W*H*D) | Body | mm | 570*568*137 | 570*568*137 |
| | | inch | 22.4*22.3*5.4 | 22.4*22.3*5.4 |
| Coil | Rows x Columns x FPI | | 1*18*21 | 1*18*21 |
| | Face Area | m ² | 0.16 | 0.16 |
| Fan | Type | | Turbo Fan | Turbo Fan |
| | Motor Output | W | 24 | 24 |
| | Running Current | A | 1.5 | 1.5 |
| | Air Flow Rate(H/M/L) | cmm | 7/ 6.5 /6 | 8.7/ 8.1 /7.5 |
| | | cfm | 247/230/212 | 307/286/265 |
| | Drive | | Direct | Direct |
| | Speed control | | BLDC | BLDC |
| Temperature Control | | | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystyrene | Foamed polystyrene |
| Air Filter | | | Accessory | Accessory |
| Safety Device | | | Fuse | Fuse |
| Pipe Connections | Liquid Side | mm(inch) | Ø6.35(1/4) | Ø6.35(1/4) |
| | Gas Side | mm(inch) | Ø12.7(1/2) | Ø12.7(1/2) |
| | Drain Pipe(ID) | mm | 20 | 20 |
| Net Weight | | kg(lbs) | 12(26.5) | 12(26.5) |
| Noise Level (Sound Press,1.5m, H/M/L) | | dBA±3 | 36/33/30 | 40/36/31 |
| Power Supply | | Ø / V / Hz | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 |
| Refrigerant Control | | | LEV | LEV |
| Power cable | | mm ² | CV2.0 X 3C | CV2.0 X 3C |
| Transmission cable | | mm ² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C |
| Front Panel(** Position) | | | M: Metal, D: Wood, B: Blue | |
| Stuffing Quantity | Without S/parts | 20/40ft | 240/540 | 240/540 |

Notes:-

1. Capacities are based on the following conditions:

- Cooling
- Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Heating
- Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 - Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.: Linear Expansion Valve

1.2 60Hz

1.2.1 Cooling Only

Cooling Only (60Hz)

| Model | | | Unit | LRNV092SP*0 | LRNV122SP*0 |
|---|----------------------|------------|--|--|-------------|
| Cooling Capacity | | | W | 2,600 | 3,500 |
| | | | kcal/h | 2,235 | 3,009 |
| | | | Btu/h | 8,871 | 11,942 |
| Heating Capacity | | | W | - | - |
| | | | kcal/h | - | - |
| | | | Btu/h | - | - |
| Dimensions (W*H*D) | Body | mm | 570*568*137 | 570*568*137 | |
| | | inch | 22.4*22.3*5.4 | 22.4*22.3*5.4 | |
| Coil | Rows x Columns x FPI | | 1*18*21 | 1*18*21 | |
| | Face Area | m² | 0.16 | 0.16 | |
| Fan | Type | | Turbo Fan | Turbo Fan | |
| | Motor Output | W | 24 | 24 | |
| | Running Current | A | 1.5 | 1.5 | |
| | Air Flow Rate(H/M/L) | cmm | 7/ 6.5 /6 | 8.7/ 8.1 /7.5 | |
| | | cfm | 247/230/212 | 307/286/265 | |
| | Drive | | Direct | Direct | |
| | Speed control | | BLDC | BLDC | |
| Temperature Control | | | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystyrene | Foamed polystyrene | |
| Air Filter | | | Accessory | Accessory | |
| Safety Device | | | Fuse | Fuse | |
| Pipe Connections | Liquid Side | mm(inch) | Ø6.35(1/4) | Ø6.35(1/4) | |
| | Gas Side | mm(inch) | Ø12.7(1/2) | Ø12.7(1/2) | |
| | Drain Pipe(ID) | mm | 20 | 20 | |
| Net Weight | | kg(lbs) | 12(26.5) | 12(26.5) | |
| Noise Level (Sound Press,1.5m, H/M/L) | | dBA±3 | 36/33/30 | 40/36/31 | |
| Power Supply | | Ø / V / Hz | 1 / 220 / 60 | 1 / 220 / 60 | |
| Refrigerant Control | | | LEV | LEV | |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C | |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | |
| Front Panel(*1 Position) | | | M: Metal, D: Wood, B: Blue | | |
| Stuffing Quantity | Without S/parts | 20/40ft | 240/540 | 240/540 | |

Notes:-

- Capacities are based on the following conditions:
Cooling
 - Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Capacities are net capacities
- Due to our policy of innovation some specifications may be changed without notification
- L.E.V.: Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m³/min x 35.3

1.2.2 Heat Pump

Heat Pump (60Hz)

| Model | | | Unit | LRNN092SP*0 | LRNN122SP*0 |
|---|----------------------|------------|--|--|-------------|
| Cooling Capacity | | | W | 2,600 | 3,500 |
| | | | kcal/h | 2,235 | 3,009 |
| | | | Btu/h | 8,871 | 11,942 |
| Heating Capacity | | | W | 2,925 | 3,938 |
| | | | kcal/h | 2,515 | 3,385 |
| | | | Btu/h | 9,980 | 13,435 |
| Dimensions (W*H*D) | Body | mm | 570*568*137 | 570*568*137 | |
| | | inch | 22.4*22.3*5.4 | 22.4*22.3*5.4 | |
| Coil | Rows x Columns x FPI | | 1*18*21 | 1*18*21 | |
| | Face Area | m² | 0.16 | 0.16 | |
| Fan | Type | | Turbo Fan | Turbo Fan | |
| | Motor Output | W | 24 | 24 | |
| | Running Current | A | 1.5 | 1.5 | |
| | Air Flow Rate(H/M/L) | cmm | 7/ 6.5 /6 | 8.7/ 8.1 /7.5 | |
| | | cfm | 247/230/212 | 307/286/265 | |
| | Drive | | Direct | Direct | |
| | Speed control | | BLDC | BLDC | |
| Temperature Control | | | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystyrene | Foamed polystyrene | |
| Air Filter | | | Accessory | Accessory | |
| Safety Device | | | Fuse | Fuse | |
| Pipe Connections | Liquid Side | mm(inch) | Ø6.35(1/4) | Ø6.35(1/4) | |
| | Gas Side | mm(inch) | Ø12.7(1/2) | Ø12.7(1/2) | |
| | Drain Pipe(ID) | mm | 20 | 20 | |
| Net Weight | | kg(lbs) | 12(26.5) | 12(26.5) | |
| Noise Level (Sound Press,1.5m, H/M/L) | | dBA±3 | 36/33/30 | 40/36/31 | |
| Power Supply | | Ø / V / Hz | 1 / 220 / 60 | 1 / 220 / 60 | |
| Refrigerant Control | | | LEV | LEV | |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C | |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | |
| Front Panel(*' Position) | | | M: Metal, D: Wood, B: Blue | | |
| Stuffing Quantity | Without S/parts | 20/40ft | 240/540 | 240/540 | |

Notes:-

1. Capacities are based on the following conditions:

- Cooling
- Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Heating
- Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 - Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.: Linear Expansion Valve

2. Functions

Indoor Unit

Operation ON/OFF by Remote controller

Sensing the Room Temperature

- Room temperature sensor. (THERMISTOR)

Room temperature control

- Maintains the room temperature in accordance with the Setting temperature

Starting Current Control

- Indoor fan is delayed for 5 sec at the starting.

Time Delay Safety Control

- Restarting is inhibited for approx. 3 minutes.

Indoor Fan Speed Control

- High, Med, Low, CHAOS

Operation indication Lamps (LED)

Signal Receptor

Receives the signals from the remote control.(Signal receiving sound: two short beeps or one long beep.)

Operation Indication Lamps

- | | | |
|--------|--------------|---|
| ① | On/Off | : Lights up during the system operation. |
| ☆ | Sleep Mode | : Lights up during Sleep Mode Auto operation. |
| ⌚ | Timer | : Lights up during Timer operation. |
| * ⬆ | Defrost Mode | : Lights up during Defrost Mode or Hot Start operation. |
| BB | Temperature | : Indicate the setting temperature. |

Soft Dry Operation Mode

- Intermittent operation of fan at low speed.

Sleep Mode Auto Control

- The fan is switched to low(Cooling), med(Heating) speed.
- The unit will be stopped after 1, 2, 3, 4, 5, 6, 7 hours.

Natural Air Control by CHAOS Logic

- The fan is switched to intermittent or irregular operation
- The fan speed is automatically switched from high to low speed.

Airflow Direction Control

- The louver can be set at the desired position or swing up and down automatically.

Defrost(Deice) control (Heating)

- Both the indoor and outdoor fan stops during defrosting.

Hot-start Control (Heating)

- The indoor fan does not rotate until the evaporator pipe temperature will be reached at 28°C.

3. Operation Details

(1) MAIN UNIT FUNCTION

• DISPLAY

Operation Indicator

- ON while in appliance operation, OFF while in appliance pause.
- Flashing while in disconnection or short in Thermistor. (3 sec off / 0.5 sec on)

Sleep Timer Indicator

- ON while in sleep timer mode, OFF when sleep timer cancel or appliance operation pause.

Timer Indicator

- ON while in timer mode (on/off), OFF when timer mode is completed or canceled.

Defrost Indicator

- OFF except when hot start during heating mode operation or while in defrost control.

■ Cooling Mode Operation

- When the intake air temperature reaches 0.5°C below the setting temperature, the compressor and the outdoor fan stop.
- When it reaches 0.5°C above the setting temperature, they start to operate again.

| | |
|----------------------------|------------------------------|
| Compressor ON Temperature | ➤ Setting Temperature +0.5°C |
| Compressor OFF Temperature | ➤ Setting Temperature -0.5°C |
- While in compressor running, operating with the airflow speed set by the remote control. While in compressor not running, operating with the low airflow speed regardless of the setting.

■ Healthy Dehumidification Mode

- When the dehumidification operation input by the remote control is received, the intake air temperature is detected and the setting temperature is automatically set according to the intake air temperature.

| | |
|--|---------------------------------|
| 26°C ≤ Intake Air Temperature | ➤ 25°C |
| 24°C ≤ Intake Intake Air Temperature <26°C | ➤ Intake Air Temperature -1°C |
| 18°C ≤ Intake Intake Air Temperature <24°C | ➤ Intake Air Temperature -0.5°C |
| Intake Air Temperature <18°C | ➤ 18°C |
- While in compressor off, the indoor fan repeats low airflow speed and pause.
- While the intake air temperature is between compressor on temperature and compressor off temperature, 10-min dehumidification operation and 4-min compressor off repeat.

| | |
|----------------------------|------------------------------|
| Compressor ON temperature | ➤ Setting Temperature +0.5°C |
| Compressor OFF temperature | ➤ Setting Temperature -0.5°C |
- In 10-min dehumidification operation, the indoor fan operates with the low airflow speed.

■ Heating Mode Operation

- When the intake air temperature reaches +3°C above the setting temperature, the compressor is turned off. When below the setting temperature, the compressor is turned on.
Compressor ON temperature ➤ Setting temperature
Compressor OFF temperature ➤ Setting temperature+3°C
- While in compressor on, the indoor fan is off when the indoor pipe temperature is below 20°C, when above 28°C, it operates with the low or setting airflow speed. When the indoor pipe temperature is between 20°C and 28°C, it operates with Super-Low(while in sleep mode, with the medium airflow speed).
- While in compressor off, the indoor fan is off when the indoor pipe temperature is below 33°C, when above 35°C, it operates with the low airflow speed.
- If overloaded while in heating mode operation, in order to prevent the compressor from OLP operation, the outdoor fan is turned on/off according to the indoor pipe temperature
- While in defrost control, both of the indoor and outdoor fans are turned off.

■ Fuzzy Operation

- When any of operation mode is not selected like the moment of the power on or when 3 hrs has passed since the operation off, the operation mode is selected.
- When determining the operation mode, the compressor, the outdoor fan, and the 4 way valve are off and only the indoor fan is operated for 15 seconds. Then an operation mode is selected according to the intake air temperature at that moment as follows.
24°C ≤ Intake Air Temperature ➤ Fuzzy Operation for Cooling
21°C ≤ Intake Air Temperature <24°C ➤ Fuzzy Operation for Dehumidification
Intake Air Temperature <21°C ➤ Fuzzy Operation for Heating
- If any of the operation modes among cooling / dehumidification / heating mode operations is carried out for 10 sec or longer before Fuzzy operation, the mode before Fuzzy operation is operated.

1) Fuzzy Operation for Cooling

- According to the setting temperature selected by Fuzzy rule, when the intake air temperature is 0.5°C or more below the setting temperature, the compressor is turned off. When 0.5°C or more above the setting temperature, the compressor is turned on.
Compressor ON Temperature ➤ Setting Temperature +0.5°C
Compressor OFF Temperature ➤ Setting Temperature + 0.5°C
- At the beginning of Fuzzy mode operation, the setting temperature is automatically selected according to the intake air temperature at that time.
26°C ≤ Intake Air Temperature ➤ 25°C
24°C ≤ Intake Air Temperature <26°C ➤ Intake Air Temperature + 1°C
22°C ≤ Intake Air Temperature <24°C ➤ Intake Air Temperature + 0.5°C
18°C ≤ Intake Air Temperature <22°C ➤ Intake Air Temperature
Intake Air Temperature <18°C ➤ 18°C
- When the Fuzzy key (Temperature Control key) is input after the initial setting temperature is selected, the Fuzzy key value and the intake air temperature at that time are compared to select the setting temperature automatically according to the Fuzzy rule.
- While in Fuzzy operation, the airflow speed of the indoor fan is automatically selected according to the temperature.

2) Fuzzy Operation for Dehumidification

- According to the setting temperature selected by Fuzzy rule, when the intake air temperature is 0.5°C or more below the setting temperature, the compressor is turned off. When 0.5°C or more above the setting temperature, the compressor is turned on.
 Compressor ON Temperature ➤ Setting Temperature + 0.5°C
 Compressor OFF Temperature ➤ Setting Temperature + 0.5°C
- At the beginning of Fuzzy mode operation, the setting temperature is automatically selected according to the intake air temperature at that time.
 26°C ≤ Intake Air Temperature ➤ 25°C
 24°C ≤ Intake Air Temperature < 26°C ➤ Intake Air Temperature + 1°C
 22°C ≤ Intake Air Temperature < 24°C ➤ Intake Air Temperature + 0.5°C
 18°C ≤ Intake Air Temperature < 22°C ➤ Intake Air Temperature
 Intake Air Temperature < 18°C ➤ 18°C
- When the Fuzzy key (Temperature Control key) is input after the initial setting temperature is selected, the Fuzzy key value and the intake air temperature at that time are compared to select the setting temperature automatically according to the Fuzzy rule.
- While in Fuzzy operation, the airflow speed of the indoor fan repeats the low airflow speed or pause as in dehumidification operation.

3) Fuzzy Operation for Heating

- According to the setting temperature selected by Fuzzy rule, when the intake air temperature is 3°C or more above the setting temperature, the compressor is turned off. When below the setting temperature, the compressor is turned on.
 Compressor ON Temperature ➤ Setting Temperature
 Compressor OFF Temperature ➤ Setting Temperature + 3°C
- At the beginning of Fuzzy mode operation, the setting temperature is automatically selected according to the intake air temperature at that time.
 20°C ≤ Intake Air Temperature ➤ Intake Air Temperature + 0.5°C
 Intake Air Temperature < 20°C ➤ 20°C
- When the Fuzzy key (Temperature Control key) is input after the initial setting temperature is selected, the Fuzzy key value and the intake air temperature at that time are compared to select the setting temperature automatically according to the Fuzzy rule.
- While in Fuzzy operation, the airflow speed of the indoor fan is set to the high or the medium according to the intake air temperature and the setting temperature.

■ Airflow Speed Selection

- The airflow speed of the indoor fan is set to high, medium, low, or chaos (auto) by the input of the airflow speed selection key on the remote control.

■ On-Timer Operation

- When the set time is reached after the time is input by the remote control, the appliance starts to operate.
- The timer LED is on when the on-timer is input. It is off when the time set by the timer is reached.
- If the appliance is operating at the time set by the timer, the operation continues.

■ Off-Timer Operation

- When the set time is reached after the time is input by the remote control, the appliance stops operating.
- The timer LED is on when the off-timer is input. It is off when the time set by the timer is reached.
- If the appliance is on pause at the time set by the timer, the pause continues.

■ Off-Timer ↔ On-Timer Operation

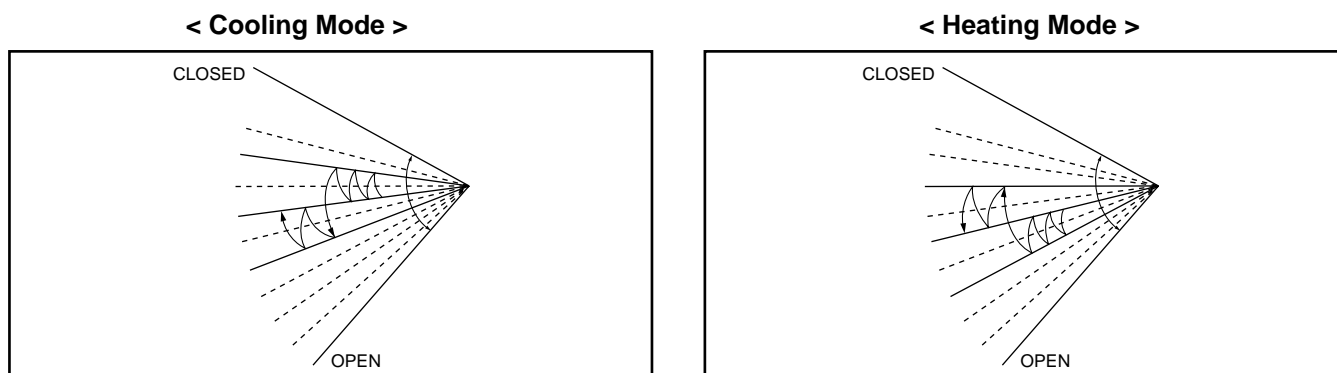
- When the set time is reached after the on/off time is input by the remote control, the on/off-timer operation is carried out according to the set time.

■ Sleep Timer Operation

- When the sleep time is reached after <1,2,3,4,5,6,7,0(cancel) hour > is input by the remote control while in appliance operation, the operation of the appliance stops.
- While the appliance is on pause, the sleep timer mode cannot be input.
- While in cooling mode operation, 30 min later since the start of the sleep timer, the setting temperature increases by 1°C. After another 30 min elapse, it increases by 1°C again.
- When the sleep timer mode is input while in cooling cycle mode, the airflow speed of the indoor fan is set to the low.
- When the sleep timer mode is input while in heating cycle mode, the airflow speed of the indoor fan is set to the medium.

■ Chaos Swing Mode

- By the Chaos Swing key input, the louvers vane automatically operate with the Chaos Swing or they are fixed to the desired direction.
- While in Chaos Swing mode, the angles of cooling and heating cycle operations are different.



■ Jet Cool Mode Operation

- While in heating mode or Fuzzy operation, the Jet Cool key cannot be input. When it is input while in the other mode operation (cooling, dehumidification, ventilation), the Jet Cool mode is operated.
- In the Jet Cool mode, the indoor fan is operated at super-high speed for 30 min at cooling mode operation.
- In the Jet Cool mode operation, the room temperature is controlled to the setting temperature, 18°C.
- When the sleep timer mode is input while in the Jet Cool mode operation, the Jet Cool mode has the priority.
- During the JET HEAT function at any moment, the A/C starts to blow the hot air with side louvers closed at extremely high speed for 60 minutes setting the room temperature automatically to 30°C.

■ Forced Operation

- Operation procedures when the remote control can't be used.
- The operation will be started if the power button is pressed.
- If you want to stop operation, re-press the button.

| | Room temperature $\geq 24^{\circ}\text{C}$ | $21^{\circ}\text{C} \leq \text{Room temperature} < 24^{\circ}\text{C}$ | Room temperature $< 21^{\circ}\text{C}$ |
|---------------------|--|--|---|
| Operating mode | Cooling | Healthy Dehumidification | Heating |
| Indoor FAN Speed | High | High | High |
| Setting Temperature | 22°C | 23°C | 24°C |

- While in forced operation, the key input by the remote control has no effect and the buzzer sounds 10 times to indicate the forced operation.

■ Test operation

- During the TEST OPERATION, the unit operates in cooling mode at high speed fan, regardless of room temperature and resets in 18 ± 1 minutes.
- During test operation, if remote controller signal is received, the unit operates as remote controller sets. If you want to use this operation, open the front panel upward and Press the power button let it be pressed for about 3 seconds.
- If you want to stop the operation, re-press the button.

■ Auto restart

- In case the power comes on again after a power failure, Auto Restarting Operation is the function to operate procedures automatically to the previous operating conditions.

■ Remote Control Operation Mode

- When the remote control is selected by the slide switch on the main unit, the appliance operates according to the input by the remote control.

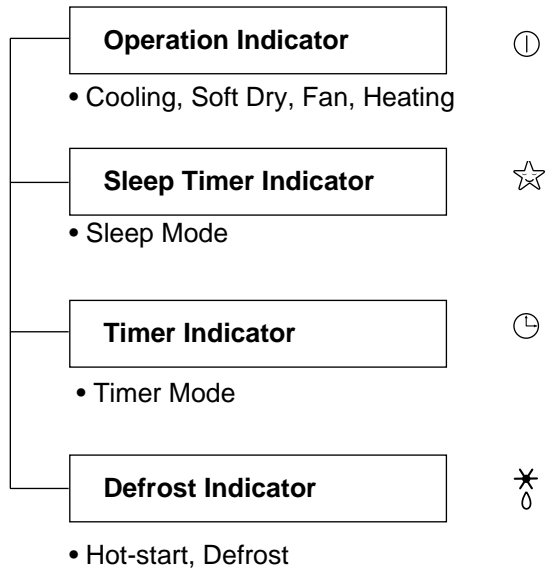
■ Protection of the evaporator pipe from frosting

- If the indoor pipe temperature is below 0°C in 7 min. after the compressor operates without any pause while in cooling cycle operation mode, the compressor and the outdoor fan are turned off in order to protect the indoor evaporator pipe from frosting.
- When the indoor pipe temperature is 7°C or higher after 3 min. pause of the compressor, the compressor and the outdoor fan is turned on according to the condition of the room temperature.

■ Buzzer Sounding Operation

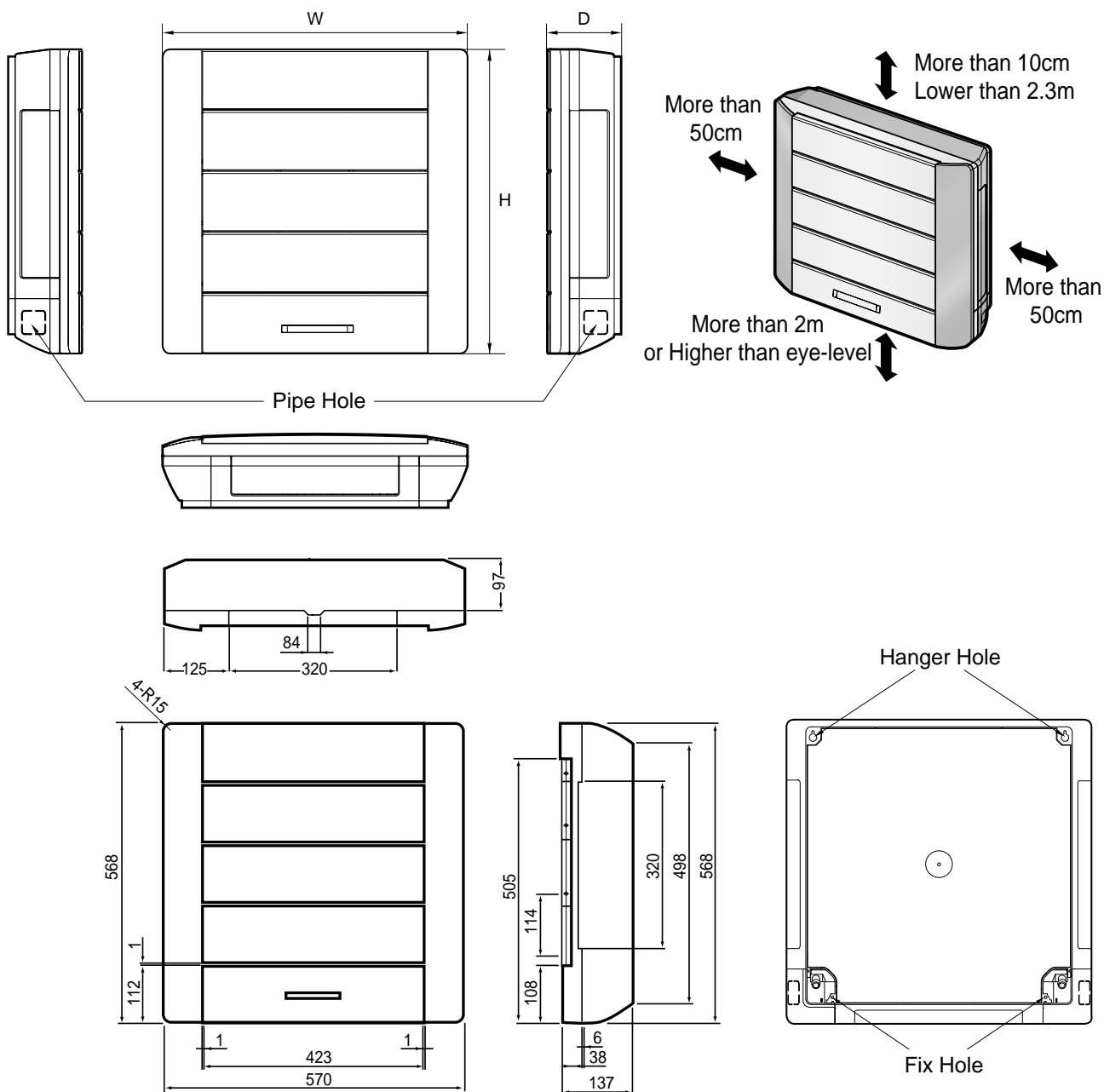
- When the appliance-operation key is input by the remote control, the short "beep-beep-" sounds.
- When the appliance-pause key is input by the remote control, the long "beep—" sounds.
- When a key is input by the remote control while the slide switch on the main unit of the appliance is on the forced operation position, the error sound "beep-beep-beep-beep-beep-" is made 10 times to indicate that the remote control signal cannot be received.

4. Display Function



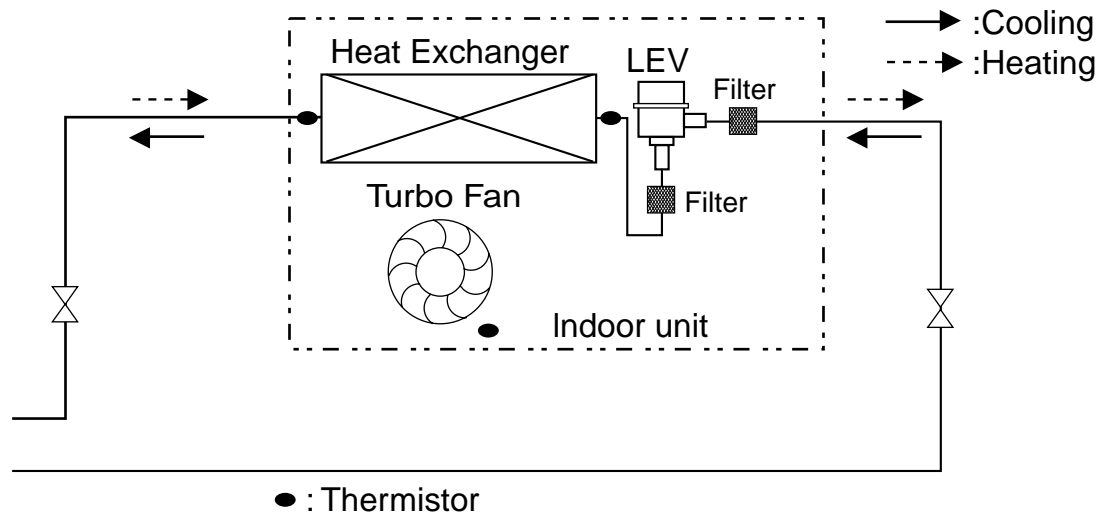
5. Dimensional Drawings

LRNV096SP*0/LRNN096SP*0/LRNV092SP*0/LRNN092SP*0
LRNV126SP*0/LRNN126SP*0/LRNV122SP*0/LRNN122SP*0



| Model | W | H | D |
|--|-----|-----|-----|
| LRNV096SP*0/LRNN096SP*0/LRNV092SP*0/LRNN092SP*0 LRNV126SP*0/LRNN126SP*0/LRNV122SP*0/LRNN122SP*0 | 570 | 568 | 137 |

6. Piping Diagrams

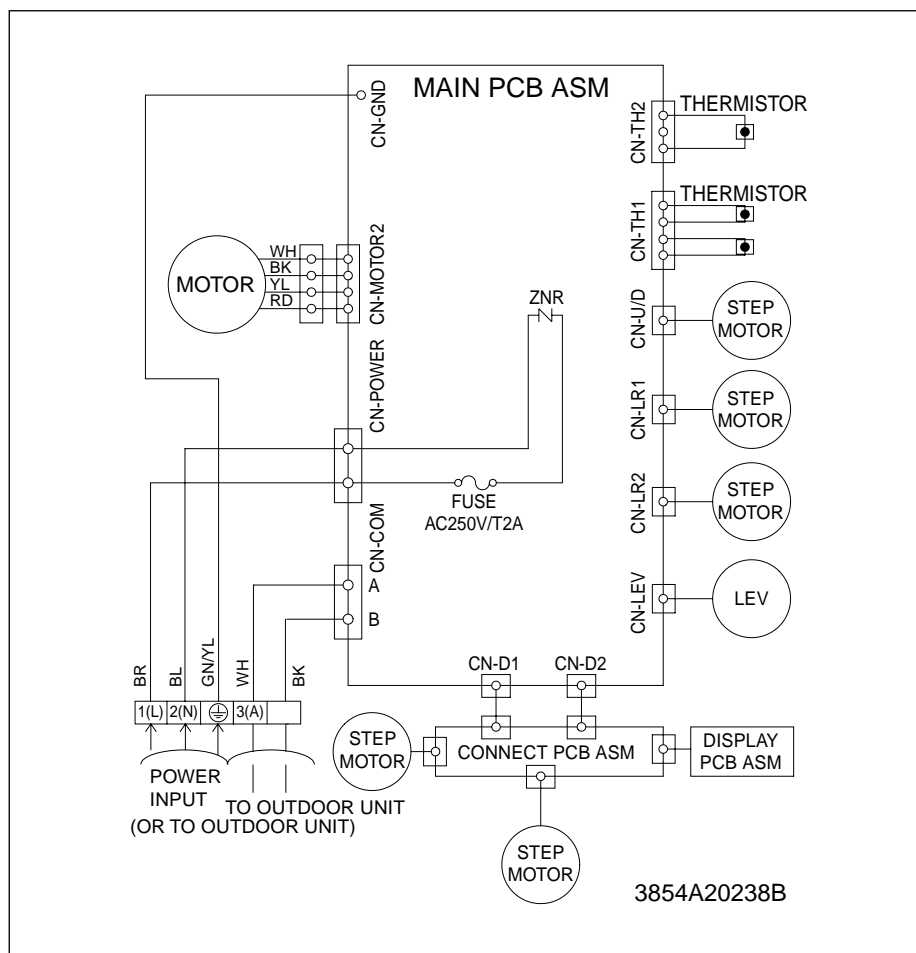


Refrigerant pipe connection port diameter

| Model | [unit: mm(inch)] | |
|--|------------------|-----------|
| | Gas | Liquid |
| LRNV096SP*0/LRNN096SP*0/LRNV092SP*0/LRNN092SP*0 LRNV126SP*0/LRNN126SP*0/LRNV122SP*0/LRNN122SP*0 | 12.7(1/2) | 6.35(1/4) |

*(Color): M(Metal), D(Wood), B(Blue)

7. Wiring Diagrams



| CONNECTOR NUMBER | SPEC | COLOR | DESCRIPTION |
|------------------|-----------------------|-------|---|
| CN-POWER | AC POWER SUPPLY | WHITE | AC POWER LINE INPUT FOR INDOOR CONTROLLER |
| CN-MOTOR2 | AC FAN MOTOR OUTPUT | WHITE | MOTOR OUTPUT OF PHASE CONTROL |
| CN-COM | COMMUNICATION | WHITE | COMMUNICATION BETWEEN INDOOR AND OUTDOOR |
| CN-LEV | LEV OUTPUT | WHITE | LEV CONTROL OUTPUT |
| CN-D1 | DISPLAY | BLUE | DISPLAY OF INDOOR STATUS |
| CN-D2 | DISPLAY | WHITE | DISPLAY OF INDOOR STATUS |
| CN-LR1 | STEP MOTOR | WHITE | STEP MOTOR OUTPUT FOR LEFT/RIGHT |
| CN-LR2 | STEP MOTOR | WHITE | STEP MOTOR OUTPUT FOR LEFT/RIGHT |
| CN-UD | STEP MOTOR | BLUE | STEP MOTOR OUTPUT |
| CN-TH1 | ROOM/PIPE SENSOR | WHITE | ROOM AND PIPE THERMISTOR |
| CN-TH2 | DISCHARGE PIPE SENSOR | RED | DISCHARGE PIPE THERMISTOR |

8. Disassembly of the parts

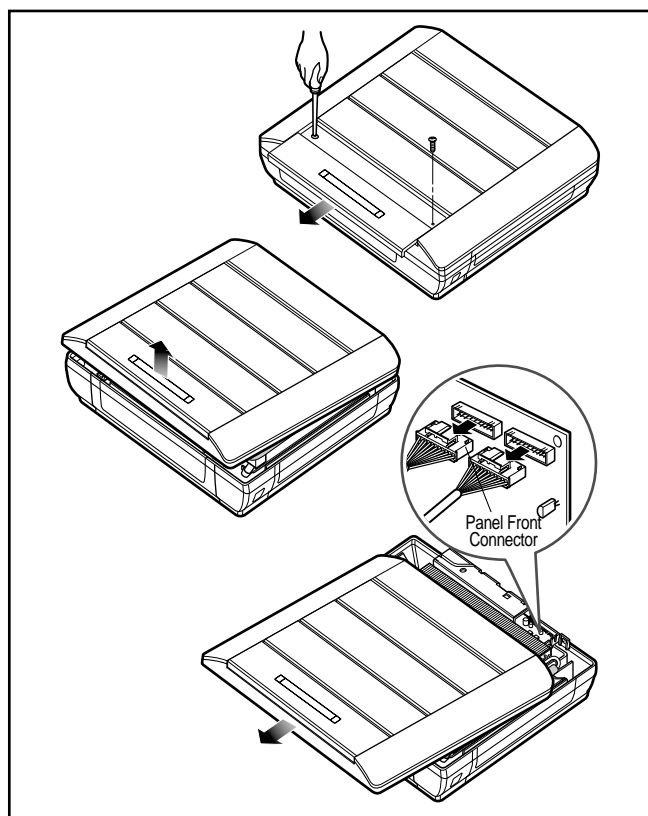
Warning :

Disconnect the unit from power supply before making any checks.

Be sure the power switch is set to "OFF".

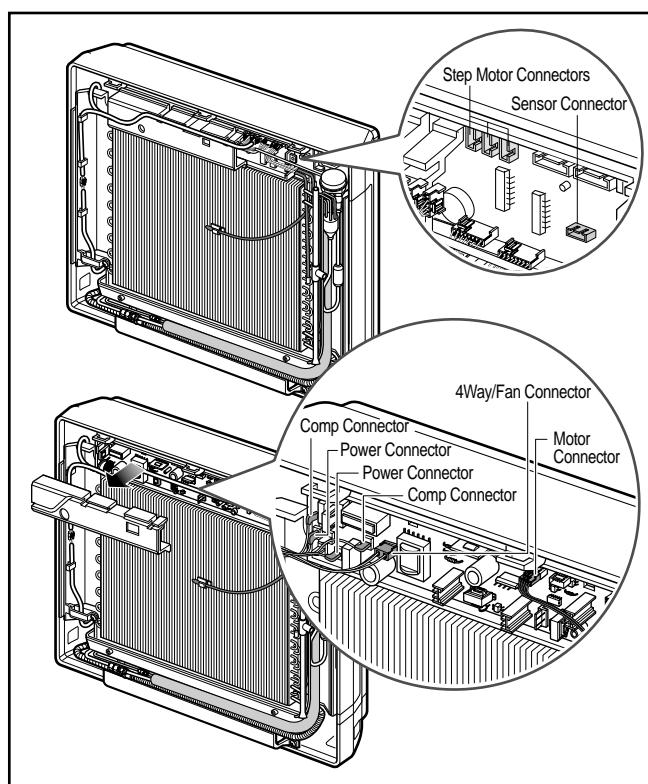
1. To remove the Grille from the Chassis.

- Pull the grille bottom, then remove 2 securing screws.
- Lift the both lower parts of panel front.
- After pull down this panel a bit, separate connecting wire with product.



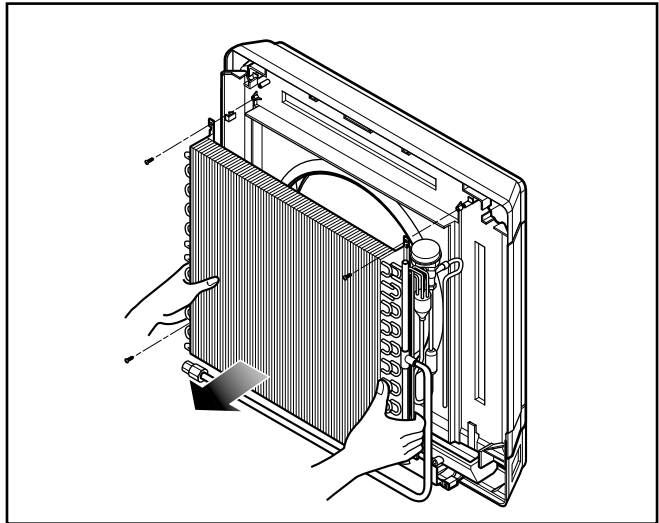
2. To remove the Control Box.

- Before removing the control box, be sure to disconnect the wires from PWB.
- Pull the cover control out from the control box and disconnect other wires.
- Remove securing screws.
- Pull the control box out from the chassis carefully.



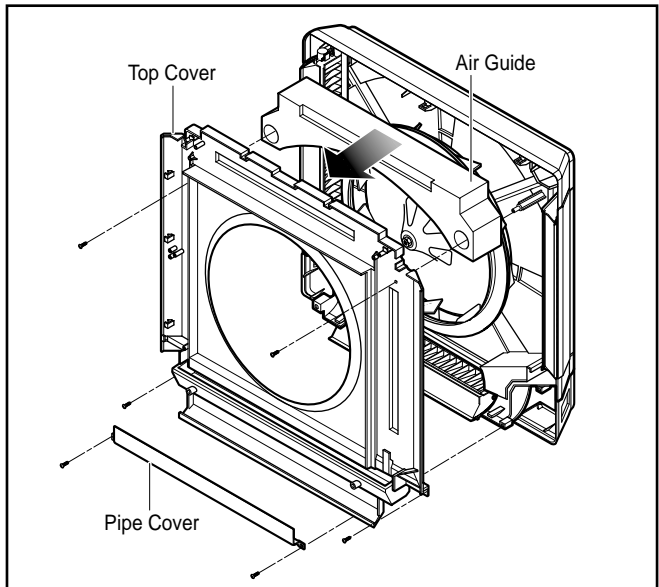
3. To remove the Evaporator.

- Remove 4 screws securing the evaporator.
- Pull the evaporator out from the chassis carefully.



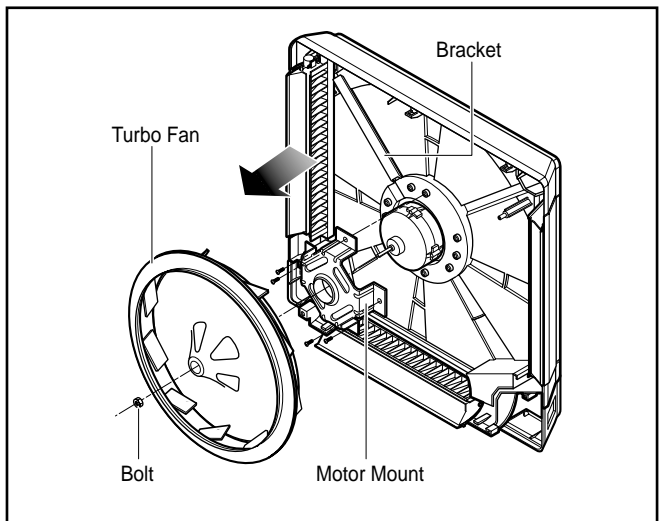
4. Before removing the Turbo Fan.

- Remove the securing screws from the chassis.
- Pull the pipe cover, top cover and the air guide.



5. To remove the Motor.

- Remove the securing bolt from the motor shaft.
- Pull the fan out from the motor shaft.
- Remove 4 screws securing motor mount from the chassis and lift up the motor mount and the bracket.



Art Cool Type(Wide)

| | |
|-----------------------------------|-----|
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1. Specifications

1.1 50Hz

1.1.1 Cooling Only

Cooling Only (50Hz)

| Model | | | Unit | LRNV126SV*0 | LRNV186SV*0 |
|---|----------------------|------------|--|--|-------------|
| Cooling Capacity | | | W | 3,500 | 5,300 |
| | | | kcal/h | 3,009 | 4,557 |
| | | | Btu/h | 11,942 | 18,084 |
| Heating Capacity | | | W | - | - |
| | | | kcal/h | - | - |
| | | | Btu/h | - | - |
| Dimensions (W*H*D) | Body | mm | 928*522*147 | 928*522*147 | |
| | | inch | 36.5*20.6*5.8 | 36.5*20.6*5.8 | |
| Coil | Rows x Columns x FPI | | 2*16*20 | 2*16*20 | |
| | Face Area | m² | 0.24 | 0.24 | |
| Fan | Type | | Turbo Fan | Turbo Fan | |
| | Motor Output | W | 20x2 | 20x2 | |
| | Running Current | A | 1.3x2 | 1.3x2 | |
| | Air Flow Rate(H/M/L) | cmm | 8.6 / 8 / 7.3 | 13.5/ 11.4 / 10.4 | |
| | | cfm | 304/283/258 | 477/403/367.5 | |
| | Drive | | Direct | Direct | |
| | Speed control | | BLDC | BLDC | |
| Temperature Control | | | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystyrene | Foamed polystyrene | |
| Air Filter | | | Accessory | Accessory | |
| Safety Device | | | Fuse | Fuse | |
| Pipe Connections | Liquid Side | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) | |
| | Gas Side | mm(inch) | Ø15.88(5/8) | Ø15.88(5/8) | |
| | Drain Pipe(ID) | mm | 20 | 20 | |
| Net Weight | | kg(lbs) | 15(33) | 15(33) | |
| Noise Level (Sound Press,1.5m, H/M/L) | | dBA±3 | 43/42/40 | 46/43/42 | |
| Power Supply | | Ø / V / Hz | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 | |
| Refrigerant Control | | | LEV | LEV | |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C | |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | |
| Front Panel(*1 Position) | | | M: Metal, B: Blue, D: Wood | | |
| Stuffing Quantity | Without S/parts | 20/40ft | 180/378 | 180/378 | |

Notes:-

1. Capacities are based on the following conditions:

- Cooling
 - Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.: Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m³/min x 35.3

1.1.2 Heat Pump

Heat Pump (50Hz)

| Model | | | Unit | LRNN126SV*0 | LRNN186SV*0 |
|---|----------------------|------------|--|--|-------------|
| Cooling Capacity | | | W | 3,500 | 5,300 |
| | | | kcal/h | 3,009 | 4,557 |
| | | | Btu/h | 11,942 | 18,084 |
| Heating Capacity | | | W | 3,938 | 5,963 |
| | | | kcal/h | 3,385 | 5,127 |
| | | | Btu/h | 13,435 | 20,345 |
| Dimensions (W*H*D) | Body | mm | 928*522*147 | 928*522*147 | |
| | | inch | 36.5*20.6*5.8 | 36.5*20.6*5.8 | |
| Coil | Rows x Columns x FPI | | 2*16*20 | 2*16*20 | |
| | Face Area | m² | 0.24 | 0.24 | |
| Fan | Type | | Turbo Fan | Turbo Fan | |
| | Motor Output | W | 20x2 | 20x2 | |
| | Running Current | A | 1.3x2 | 1.3x2 | |
| | Air Flow Rate(H/M/L) | cmm | 8.6 / 8 / 7.3 | 13.5 / 11.4 / 10.4 | |
| | | cfm | 304/283/258 | 477/403/367.5 | |
| | Drive | | Direct | Direct | |
| | Speed control | | BLDC | BLDC | |
| Temperature Control | | | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystyrene | Foamed polystyrene | |
| Air Filter | | | Accessory | Accessory | |
| Safety Device | | | Fuse | Fuse | |
| Pipe Connections | Liquid Side | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) | |
| | Gas Side | mm(inch) | Ø15.88(5/8) | Ø15.88(5/8) | |
| | Drain Pipe(ID) | mm | 20 | 20 | |
| Net Weight | | kg(lbs) | 15(33) | 15(33) | |
| Noise Level (Sound Press,1.5m, H/M/L) | | dBA±3 | 43/42/40 | 46/43/42 | |
| Power Supply | | Ø / V / Hz | 1 / 220 ~ 240 / 50 | 1 / 220 ~ 240 / 50 | |
| Refrigerant Control | | | LEV | LEV | |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C | |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | |
| Front Panel(*' Position) | | | M: Metal, B: Blue, D: Wood | | |
| Stuffing Quantity | Without S/parts | 20/40ft | 180/378 | 180/378 | |

Notes:-

1. Capacities are based on the following conditions:

- Cooling
- Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Heating
- Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 - Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.: Linear Expansion Valve

1.2 60Hz

1.2.1 Cooling Only

Cooling Only (60Hz)

| Model | | | Unit | LRNV122SV*0 | LRNV182SV*0 |
|---|----------------------|------------|--|--|-------------|
| Cooling Capacity | | | W | 3,500 | 5,300 |
| | | | kcal/h | 3,009 | 4,557 |
| | | | Btu/h | 11,942 | 18,084 |
| Heating Capacity | | | W | - | - |
| | | | kcal/h | - | - |
| | | | Btu/h | - | - |
| Dimensions (W*H*D) | Body | mm | 928*522*147 | 928*522*147 | |
| | | inch | 36.5*20.6*5.8 | 36.5*20.6*5.8 | |
| Coil | Rows x Columns x FPI | | 2*16*20 | 2*16*20 | |
| | Face Area | m² | 0.24 | 0.24 | |
| Fan | Type | | Turbo Fan | Turbo Fan | |
| | Motor Output | W | 20x2 | 20x2 | |
| | Running Current | A | 1.3x2 | 1.3x2 | |
| | Air Flow Rate(H/M/L) | cmm | 8.6 / 8 / 7.3 | 13.5 / 11.4 / 10.4 | |
| | | cfm | 304/283/258 | 477/403/367.5 | |
| | Drive | | Direct | Direct | |
| | Speed control | | BLDC | BLDC | |
| Temperature Control | | | Microprocessor, Thermostat for cooling | Microprocessor, Thermostat for cooling | |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystyrene | Foamed polystyrene | |
| Air Filter | | | Accessory | Accessory | |
| Safety Device | | | Fuse | Fuse | |
| Pipe Connections | Liquid Side | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) | |
| | Gas Side | mm(inch) | Ø15.88(5/8) | Ø15.88(5/8) | |
| | Drain Pipe(ID) | mm | 20 | 20 | |
| Net Weight | | kg(lbs) | 15(33) | 15(33) | |
| Noise Level (Sound Press,1.5m, H/M/L) | | dBA±3 | 43/42/40 | 46/43/42 | |
| Power Supply | | Ø / V / Hz | 1 / 220 / 60 | 1 / 220 / 60 | |
| Refrigerant Control | | | LEV | LEV | |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C | |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | |
| Front Panel('*' Position) | | | M: Metal, B: Blue, D: Wood | | |
| Stuffing Quantity | Without S/parts | 20/40ft | 180/378 | 180/378 | |

Notes:-

- Capacities are based on the following conditions:
 - Cooling
 - Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Capacities are net capacities
- Due to our policy of innovation some specifications may be changed without notification
- L.E.V.: Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

1.2.2 Heat Pump

Heat Pump (60Hz)

| Model | | | Unit | LRNN122SV*0 | LRNN182SV*0 |
|---|----------------------|------------|--|--|-------------|
| Cooling Capacity | | | W | 3,500 | 5,300 |
| | | | kcal/h | 3,009 | 4,557 |
| | | | Btu/h | 11,942 | 18,084 |
| Heating Capacity | | | W | 3,938 | 5,963 |
| | | | kcal/h | 3,385 | 5,127 |
| | | | Btu/h | 13,435 | 20,345 |
| Dimensions (W*H*D) | Body | mm | 928*522*147 | 928*522*147 | |
| | | inch | 36.5*20.6*5.8 | 36.5*20.6*5.8 | |
| Coil | Rows x Columns x FPI | | 2*16*20 | 2*16*20 | |
| | Face Area | m² | 0.24 | 0.24 | |
| Fan | Type | | Turbo Fan | Turbo Fan | |
| | Motor Output | W | 20x2 | 20x2 | |
| | Running Current | A | 1.3x2 | 1.3x2 | |
| | Air Flow Rate(H/M/L) | cmm | 8.6 / 8 / 7.3 | 13.5 / 11.4 / 10.4 | |
| | | cfm | 304/283/258 | 477/403/367.5 | |
| | Drive | | Direct | Direct | |
| | Speed control | | BLDC | BLDC | |
| Temperature Control | | | Microprocessor, Thermostat for cooling and heating | Microprocessor, Thermostat for cooling and heating | |
| Sound Absorbing Thermal Insulation Material | | | Foamed polystyrene | Foamed polystyrene | |
| Air Filter | | | Accessory | Accessory | |
| Safety Device | | | Fuse | Fuse | |
| Pipe Connections | Liquid Side | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) | |
| | Gas Side | mm(inch) | Ø15.88(5/8) | Ø15.88(5/8) | |
| | Drain Pipe(ID) | mm | 20 | 20 | |
| Net Weight | | kg(lbs) | 15(33) | 15(33) | |
| Noise Level (Sound Press,1.5m, H/M/L) | | dBA±3 | 43/42/40 | 46/43/42 | |
| Power Supply | | Ø / V / Hz | 1 / 220 / 60 | 1 / 220 / 60 | |
| Refrigerant Control | | | LEV | LEV | |
| Power cable | | mm² | CV2.0 X 3C | CV2.0 X 3C | |
| Transmission cable | | mm² | CVV-SB 1.25 X 2C | CVV-SB 1.25 X 2C | |
| Front Panel(*' Position) | | | M: Metal, B: Blue, D: Wood | | |
| Stuffing Quantity | Without S/parts | 20/40ft | 180/378 | 180/378 | |

Notes:-

1. Capacities are based on the following conditions:

- Cooling
- Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero
- Heating
- Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 - Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 - Interconnecting Piping Length 7.5m
 - Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.: Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

2. Functions

Indoor Unit

Operation ON/OFF by Remote controller

Sensing the Room Temperature

- Room temperature sensor. (THERMISTOR)

Room temperature control

- Maintains the room temperature in accordance with the Setting Temp.

Starting Current Control

- Indoor fan is delayed for 5 sec at the starting.

Time Delay Safety Control

- Restarting is inhibited for approx. 3 minutes.

Indoor Fan Speed Control

- High, Med, Low, CHAOS

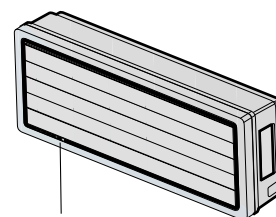
Operation indication Lamps (LED)

Signal Receptor

Receives the signals from the remote control.(Signal receiving sound: two short beeps or one long beep.)

Operation Indication Lamps

- | | | |
|--------|--------------|---|
| ① | On/Off | : Lights up during the system operation. |
| ☆ | Sleep Mode | : Lights up during Sleep Mode Auto operation. |
| ⌚ | Timer | : Lights up during Timer operation. |
| * ⬇ | Defrost Mode | : Lights up during Defrost Mode or Hot Start operation. |



Operation indication lamps

Soft Dry Operation Mode

- Intermittent operation of fan at low speed.

Sleep Mode Auto Control

- The fan is switched to low(Cooling), med(Heating) speed.
- The unit will be stopped after 1, 2, 3, 4, 5, 6, 7 hours.

Natural Air Control by CHAOS Logic

- The fan is switched to intermittent or irregular operation
- The fan speed is automatically switched from high to low speed.

Airflow Direction Control

- The louver can be set at the desired position or swing up and down automatically.

Defrost(Deice) control (Heating)

- Both the indoor and outdoor fan stops during defrosting.

Hot-start Control (Heating)

- The indoor fan does not rotate until the evaporator pipe temperature will be reached at 28°C.

3. Operation Details

1. MAIN UNIT FUNCTION

• DISPLAY

Operation Indicator

- ON while in appliance operation, OFF while in appliance pause.
- Flashing while in disconnection or short in Thermistor. (3 sec off / 0.5 sec on)

Sleep Timer Indicator

- ON while in sleep timer mode, OFF when sleep timer cancel or appliance operation pause.

Timer Indicator

- ON while in timer mode (on/off), OFF when timer mode is completed or canceled.

Defrost Indicator

- OFF except when hot start during heating mode operation or while in defrost control.

■ Cooling Mode Operation

- When the intake air temperature reaches 0.5°C below the setting temp, the compressor and the outdoor fan stop.
- When it reaches 0.5°C above the setting temp, they start to operate again.

| | |
|---------------------|----------------------|
| Compressor ON Temp | ▶ Setting Temp+0.5°C |
| Compressor OFF Temp | ▶ Setting Temp-0.5°C |
- While in compressor running, operating with the airflow speed set by the remote control. While in compressor not running, operating with the low airflow speed regardless of the setting.

■ Healthy Dehumidification Mode

- When the dehumidification operation input by the remote control is received, the intake air temperature is detected and the setting temp is automatically set according to the intake air temperature.

| | |
|-------------------------------|-------------------------|
| 26°C ≤ Intake Air Temp | ▶ 25°C |
| 24°C ≤ Intake Air Temp < 26°C | ▶ Intake Air Temp-1°C |
| 18°C ≤ Intake Air Temp < 24°C | ▶ Intake Air Temp-0.5°C |
| Intake Air Temp < 18°C | ▶ 18°C |
- While in compressor off, the indoor fan repeats low airflow speed and pause.
- While the intake air temp is between compressor on temp. and compressor off temp., 10-min dehumidification operation and 4-min compressor off repeat.

| | |
|----------------------|----------------------|
| Compressor ON Temp. | ▶ Setting Temp+0.5°C |
| Compressor OFF Temp. | ▶ Setting Temp-0.5°C |
- In 10-min dehumidification operation, the indoor fan operates with the low airflow speed.

■ Heating Mode Operation

- When the intake air temp reaches +3°...above the setting temp, the compressor is turned off. When below the setting temp, the compressor is turned on.
Compressor ON Temp. ➤ Setting Temp.
Compressor OFF Temp. ➤ Setting Temp.+3°C
- While in compressor on, the indoor fan is off when the indoor pipe temp. is below 20°C, when above 28°C , it operates with the low or setting airflow speed. When the indoor pipe temp is between 20°C and 28°C, it operates with Super-Low(while in sleep mode, with the medium airflow speed).
- While in compressor off, the indoor fan is off when the indoor pipe temp is below 33°C, when above 35°C , it operates with the low airflow speed.
- If overloaded while in heating mode operation, in order to prevent the compressor from OLP operation, the outdoor fan is turned on/off according to the indoor pipe temp.
- While in defrost control, both of the indoor and outdoor fans are turned off.

■ Defrost Control

- While in heating mode operation in order to protect the evaporator pipe of the outdoor unit from freezing, reversed to cooling cycle to defrost the evaporator pipe of the outdoor unit.
- After 40 min heating mode operation, at 4 min interval, whether to carry out defrost control or not and the time of defrost control are determined according to the following conditions.
 - 1) While in heating mode operation, the maximum of the indoor pipe temperature is measured and it is compared with the present indoor pipe temperature to get the difference of the indoor pipe temperatures (=the maximum temperature of indoor pipe ? the present temperature of indoor pipe), according to which, whether to carry out defrost control or not is determined.
 - 2) According to the need of defrost control shown above and the elapsed time of heating mode operation at that moment, the defrost control time is determined.
 - 3) When the determined time of defrost control is below 7 min, heating mode operation continues without carrying out defrost control. According to the procedure stated above, the determination is made again. When the defrost control time is 7 min or longer, defrost control is then carried out.
- While in defrost control, the minimum temp of the indoor pipe is measured and it is compared with the present temp of the indoor pipe to get the difference of the indoor pipe temperatures (=the present temperature of the indoor pipe ? the minimum temperature of the indoor pipe). When the difference is 5°C or higher, defrost control is completed and heating mode operation is carried out.
- While in defrost control, if the defrost time determined before the start of defrost control is completed, defrost control stops and heating mode operation is carried out regardless of the above condition.
- When the indoor pipe temp is 42°C or above, defrost control is not carried out even if the condition is one of the defrost conditions above.
- While in defrost control, the compressor is on and the indoor fan, the outdoor fan, and the 4 way valve are off.

■ Fuzzy Operation

- When any of operation mode is not selected like the moment of the power on or when 3 hrs has passed since the operation off, the operation mode is selected.
- When determining the operation mode, the compressor, the outdoor fan, and the 4 way valve are off and only the indoor fan is operated for 15 seconds. Then an operation mode is selected according to the intake air temp at that moment as follows.

| | |
|---|--|
| $24^{\circ}\text{C} \leq \text{Intake Air Temp}$ | ► Fuzzy Operation for Cooling |
| $21^{\circ}\text{C} \leq \text{Intake Air Temp} < 24^{\circ}\text{C}$ | ► Fuzzy Operation for Dehumidification |
| $\text{Intake Air Temp} < 21^{\circ}\text{C}$ | ► Fuzzy Operation for Heating |
- If any of the operation modes among cooling / dehumidification / heating mode operations is carried out for 10 sec or longer before Fuzzy operation, the mode before Fuzzy operation is operated.

1) Fuzzy Operation for Cooling

- According to the setting temperature selected by Fuzzy rule, when the intake air temp is 0.5°C or more below the setting temp, the compressor is turned off. When 0.5°C or more above the setting temp, the compressor is turned on.

| | |
|---------------------|--|
| Compressor ON Temp | ► Setting Temp $+0.5^{\circ}\text{C}$ |
| Compressor OFF Temp | ► Setting Temp $+ 0.5^{\circ}\text{C}$ |
- At the beginning of Fuzzy mode operation, the setting temperature is automatically selected according to the intake air temp at that time.

| | |
|---|---|
| $26^{\circ}\text{C} \leq \text{Intake Air Temp}$ | ► 25°C |
| $24^{\circ}\text{C} \leq \text{Intake Air Temp} < 26^{\circ}\text{C}$ | ► Intake Air Temp $+ 1^{\circ}\text{C}$ |
| $22^{\circ}\text{C} \leq \text{Intake Air Temp} < 24^{\circ}\text{C}$ | ► Intake Air Temp $+ 0.5^{\circ}\text{C}$ |
| $18^{\circ}\text{C} \leq \text{Intake Air Temp} < 22^{\circ}\text{C}$ | ► Intake Air Temp |
| $\text{Intake Air Temp} < 18^{\circ}\text{C}$ | ► 18°C |
- When the Fuzzy key (Temperature Control key) is input after the initial setting temperature is selected, the Fuzzy key value and the intake air temperature at that time are compared to select the setting temperature automatically according to the Fuzzy rule.
- While in Fuzzy operation, the airflow speed of the indoor fan is automatically selected according to the temperature.

2) Fuzzy Operation for Dehumidification

- According to the setting temperature selected by Fuzzy rule, when the intake air temp is 0.5°C or more below the setting temp, the compressor is turned off. When 0.5°C or more above the setting temp, the compressor is turned on.

| | |
|---------------------|--|
| Compressor ON Temp | ► Setting Temp $+ 0.5^{\circ}\text{C}$ |
| Compressor OFF Temp | ► Setting Temp $+0.5^{\circ}\text{C}$ |
- At the beginning of Fuzzy mode operation, the setting temperature is automatically selected according to the intake air temp at that time.

| | |
|---|--|
| $26^{\circ}\text{C} \leq \text{Intake Air Temp}$ | ► 25°C |
| $24^{\circ}\text{C} \leq \text{Intake Air Temp} < 26^{\circ}\text{C}$ | ► Intake Air Temp $+1^{\circ}\text{C}$ |
| $22^{\circ}\text{C} \leq \text{Intake Air Temp} < 24^{\circ}\text{C}$ | ► Intake Air Temp $+0.5^{\circ}\text{C}$ |
| $18^{\circ}\text{C} \leq \text{Intake Air Temp} < 22^{\circ}\text{C}$ | ► Intake Air Temp |
| $\text{Intake Air Temp} < 18^{\circ}\text{C}$ | ► 18°C |
- When the Fuzzy key (Temperature Control key) is input after the initial setting temperature is selected, the Fuzzy key value and the intake air temperature at that time are compared to select the setting temperature automatically according to the Fuzzy rule.
- While in Fuzzy operation, the airflow speed of the indoor fan repeats the low airflow speed or pause as in dehumidification operation.

3) Fuzzy Operation for Heating

- According to the setting temperature selected by Fuzzy rule, when the intake air temp is 3°C or more above the setting temp, the compressor is turned off. When below the setting temp, the compressor is turned on.
Compressor ON Temp ➤ Setting Temp
Compressor OFF Temp ➤ Setting Temp + 3°C
- At the beginning of Fuzzy mode operation, the setting temperature is automatically selected according to the intake air temp at that time.
20°C ≤ Intake Air Temp ➤ Intake Air Temp + 0.5°C
Intake Air Temp < 20°C ➤ 20°C
- When the Fuzzy key (Temperature Control key) is input after the initial setting temperature is selected, the Fuzzy key value and the intake air temperature at that time are compared to select the setting temperature automatically according to the Fuzzy rule.
- While in Fuzzy operation, the airflow speed of the indoor fan is set to the high or the medium according to the intake air temperature and the setting temperature.

■ Airflow Speed Selection

- The airflow speed of the indoor fan is set to high, medium, low, or chaos (auto) by the input of the airflow speed selection key on the remote control.

■ On-Timer Operation

- When the set time is reached after the time is input by the remote control, the appliance starts to operate.
- The timer LED is on when the on-timer is input. It is off when the time set by the timer is reached.
- If the appliance is operating at the time set by the timer, the operation continues.

■ Off-Timer Operation

- When the set time is reached after the time is input by the remote control, the appliance stops operating.
- The timer LED is on when the off-timer is input. It is off when the time set by the timer is reached.
- If the appliance is on pause at the time set by the timer, the pause continues.

■ Off-Timer ↔ On-Timer Operation

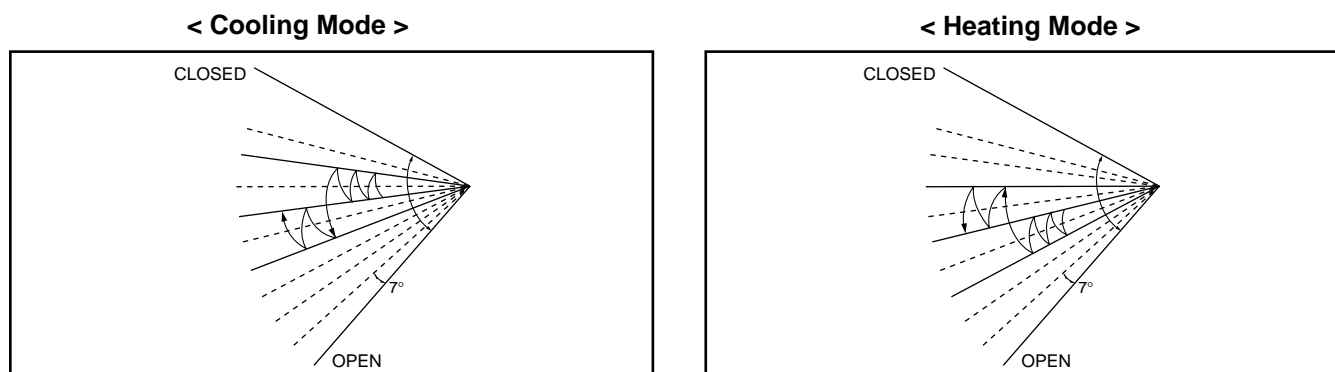
- When the set time is reached after the on/off time is input by the remote control, the on/off-timer operation is carried out according to the set time.

■ Sleep Timer Operation

- When the sleep time is reached after <1,2,3,4,5,6,7,0(cancel) hr> is input by the remote control while in appliance operation, the operation of the appliance stops.
- While the appliance is on pause, the sleep timer mode cannot be input.
- While in cooling mode operation, 30 min later since the start of the sleep timer, the setting temperature increases by 1°C. After another 30 min elapse, it increases by 1°C again.
- When the sleep timer mode is input while in cooling cycle mode, the airflow speed of the indoor fan is set to the low.
- When the sleep timer mode is input while in heating cycle mode, the airflow speed of the indoor fan is set to the medium.

■ Chaos Swing Mode

- By the Chaos Swing key input, the louvers vane automatically operate with the Chaos Swing or they are fixed to the desired direction.
- While in Chaos Swing mode, the angles of cooling and heating cycle operations are different.



■ Jet Cool Mode Operation (H/P Model)

- While in heating mode or Fuzzy operation, the Jet Cool key cannot be input. When it is input while in the other mode operation (cooling, dehumidification, ventilation), the Jet Cool mode is operated.
- In the Jet Cool mode, the indoor fan is operated at super-high speed for 30 min at cooling mode operation.
- In the Jet Cool mode operation, the room temperature is controlled to the setting temperature, 18°C.
- When the sleep timer mode is input while in the Jet Cool mode operation, the Jet Cool mode has the priority.
- During the JET HEAT function at any moment, the A/C starts to blow the hot air with side louvers closed at extremely high speed for 60 minutes setting the room temp. automatically to 30°C.

■ Forced Operation

- Operation procedures when the remote control can't be used.
- The operation will be started if the power button is pressed.
- If you want to stop operation, re-press the button.

| | Room temperature $\geq 24^{\circ}\text{C}$ | $21^{\circ}\text{C} \leq \text{Room temperature} < 24^{\circ}\text{C}$ | Room temperature $< 21^{\circ}\text{C}$ |
|---------------------|--|--|---|
| Operating mode | Cooling | Healthy Dehumidification | Heating |
| Indoor FAN Speed | High | High | High |
| Setting Temperature | 22°C | 23°C | 24°C |

- While in forced operation, the key input by the remote control has no effect and the buzzer sounds 10 times to indicate the forced operation.

■ Test operation

- During the TEST OPERATION, the unit operates in cooling mode at high speed fan, regardless of room temperature and resets in 18±1 minutes.
- During test operation, if remote controller signal is received, the unit operates as remote controller sets. If you want to use this operation, open the front panel upward and Press the power button let it be pressed for about 3 seconds.
- If you want to stop the operation, re-press the button.

■ Auto restart

- In case the power comes on again after a power failure, Auto Restarting Operation is the function to operate procedures automatically to the previous operating conditions.

■ Remote Control Operation Mode

- When the remote control is selected by the slide switch on the main unit, the appliance operates according to the input by the remote control.

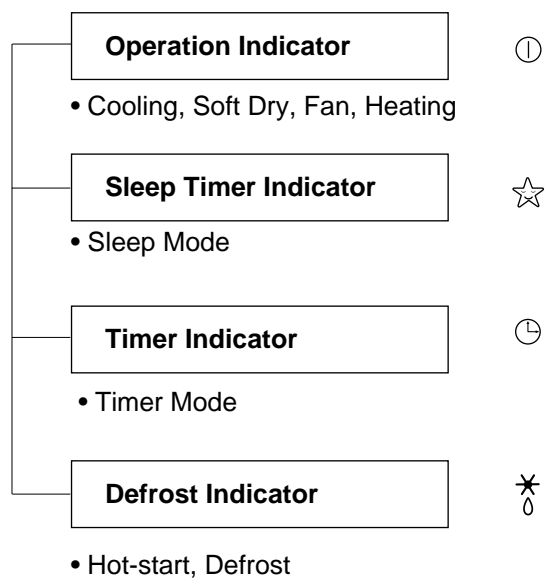
■ Protection of the evaporator pipe from frosting

- If the indoor pipe temp is below 0°C in 7 min. after the compressor operates without any pause while in cooling cycle operation mode, the compressor and the outdoor fan are turned off in order to protect the indoor evaporator pipe from frosting.
- When the indoor pipe temp is 7°C or higher after 3 min. pause of the compressor, the compressor and the outdoor fan is turned on according to the condition of the room temperature.

■ Buzzer Sounding Operation

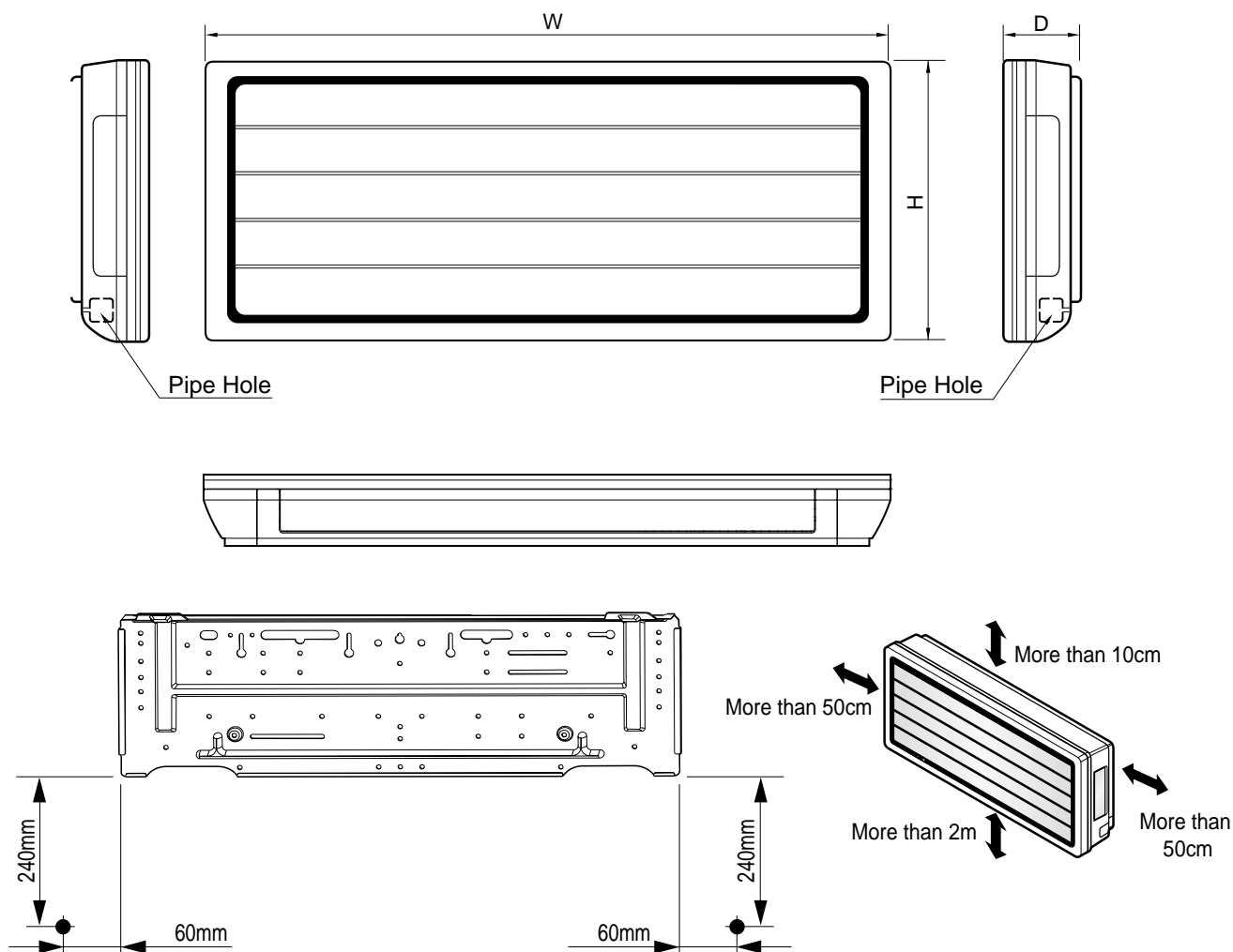
- When the appliance-operation key is input by the remote control, the short "beep-beep-" sounds.
- When the appliance-pause key is input by the remote control, the long "beep—" sounds.
- When a key is input by the remote control while the slide switch on the main unit of the appliance is on the forced operation position, the error sound "beep-beep-beep-beep-beep-" is made 10 times to indicate that the remote control signal cannot be received.

4. Display Function



5. Dimensional Drawings

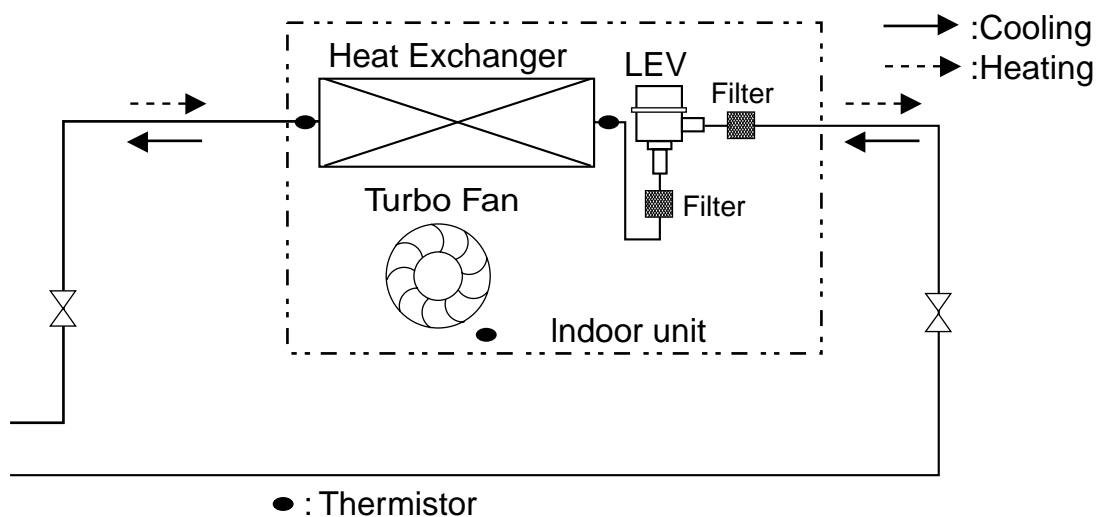
LRNV126SV*0/LRNN126SV*0/LRNV122SV*0/LRNN122SV*0
LRNV186SV*0/LRNN186SV*0/LRNV182SV*0/LRNN182SV*0



(Unit: mm)

| Model | W | H | D |
|--|-----|-----|-----|
| LRNV126SV*0/LRNN126SV*0 LRNV122SV*0/LRNN122SV*0 LRNV186SV*0/LRNN186SV*0 LRNV182SV*0/LRNN182SV*0 | 928 | 522 | 147 |

6. Piping Diagrams



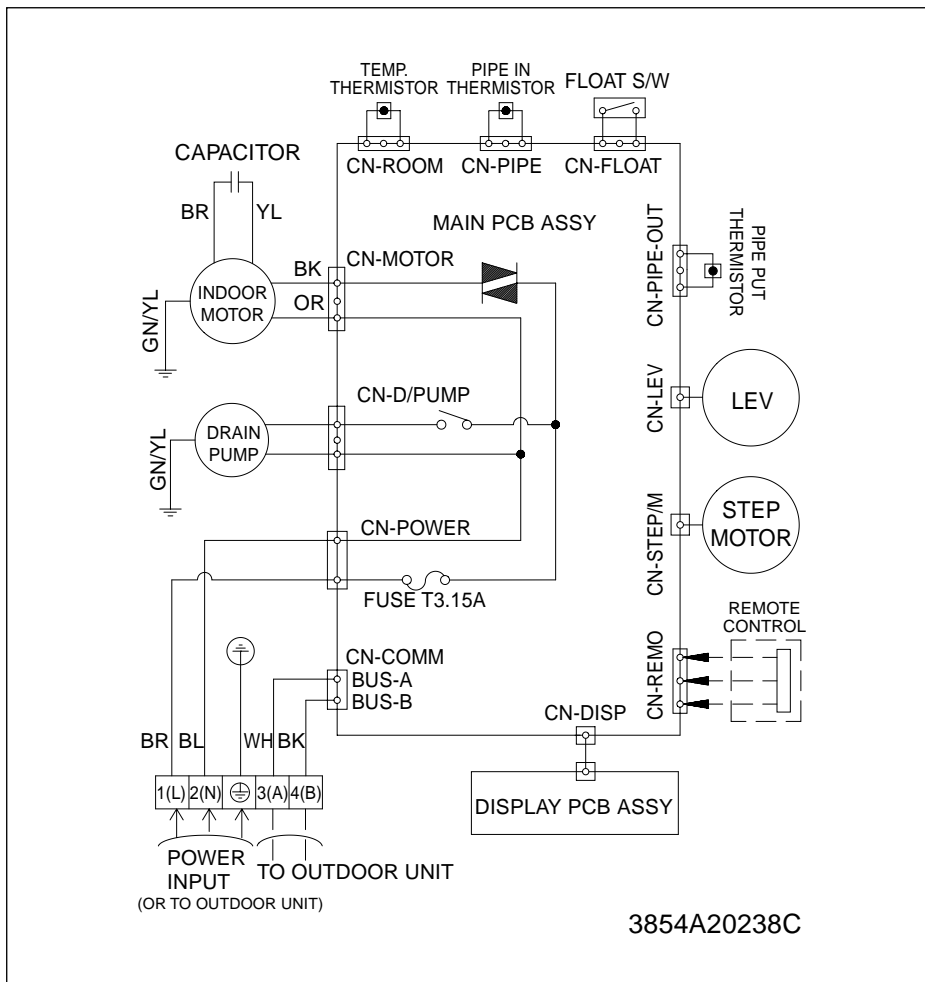
Refrigerant pipe connection port diameter

[unit: mm(inch)]

| Model | Gas | Liquid |
|---|-------------|------------|
| LRNV126SV*0/LRNN126SV*0/LRNV122SV*0/LRNN122SV*0 | ø15.88(5/8) | ø9.52(3/8) |
| LRNV186SV*0/LRNN186SV*0/LRNV182SV*0/LRNN182SV*0 | ø15.88(5/8) | ø9.52(3/8) |

*(Color): M(Metal), D(Wood), B(Blue)

7. Wiring Diagrams



| CONNECTOR NUMBER | SPEC | COLOR | DESCRIPTION |
|------------------|-----------------------|--------|---|
| CN-POWER | AC POWER SUPPLY | WHITE | AC POWER LINE INPUT FOR INDOOR CONTROLLER |
| CN-MOTOR2 | AC FAN MOTOR OUTPUT | WHITE | MOTOR OUTPUT OF PHASE CONTROL |
| CN-COM | COMMUNICATION | WHITE | COMMUNICATION BETWEEN INDOOR AND OUTDOOR |
| CN-LEV | LEV OUTPUT | WHITE | LEV CONTROL OUTPUT |
| CN-D1 | DISPLAY | BLUE | DISPLAY OF INDOOR STATUS |
| CN-D2 | DISPLAY | WHITE | DISPLAY OF INDOOR STATUS |
| CN-LR1 | STEP MOTOR | WHITE | STEP MOTOR OUTPUT FOR LEFT/RIGHT |
| CN-LR2 | STEP MOTOR | WHITE | STEP MOTOR OUTPUT FOR LEFT/RIGHT |
| CN-UD | STEP MOTOR | BLUE | STEP MOTOR OUTPUT |
| CN-TH1 | ROOM/PIPE SENSOR | WHITE | ROOM AND PIPE THERMISTOR |
| CN-TH2 | DISCHARGE PIPE SENSOR | RED | DISCHARGE PIPE THERMISTOR |
| CN-MOTOR1 | AC FAN MOTOR OUTPUT | YELLOW | MOTOR OUTPUT OF PHASE CONTROL |

8. Disassembly of the parts

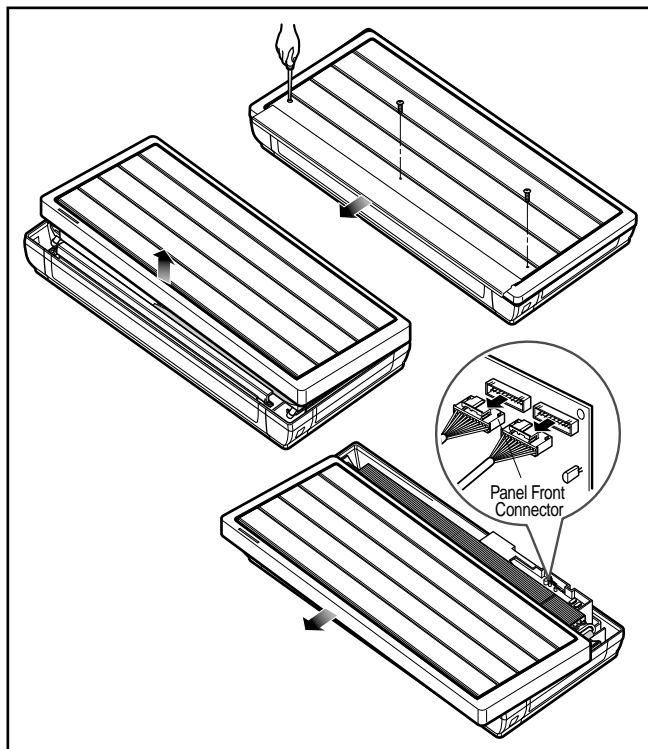
Warning :

Disconnect the unit from power supply before making any checks.

Be sure the power switch is set to "OFF".

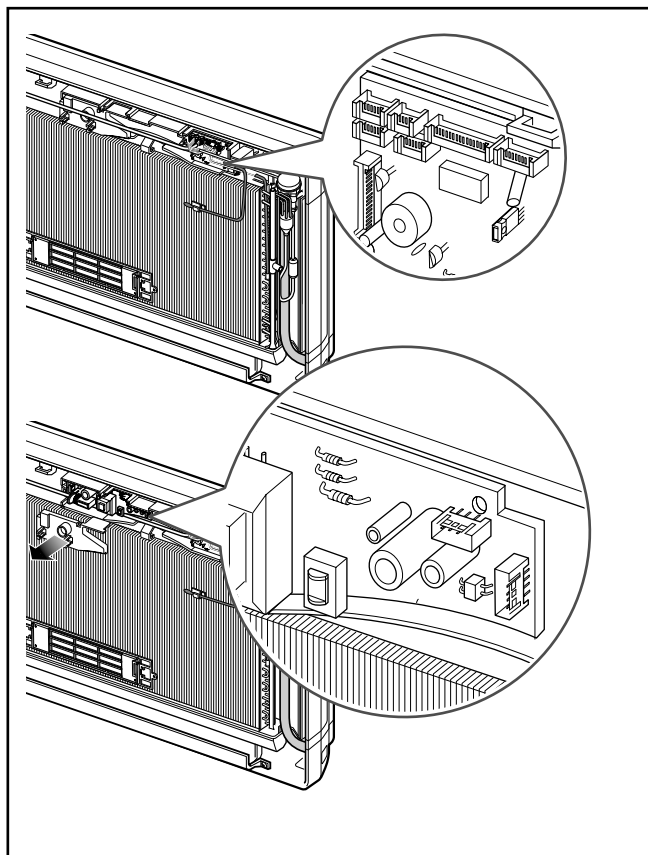
1. To remove the Grille from the Chassis.

- Push mark[] on the grille bottom then pull it down and remove 3 securing screws.
- Lift the both lower parts of panel front.
- After pull down this panel a bit, separate connecting wire with product.



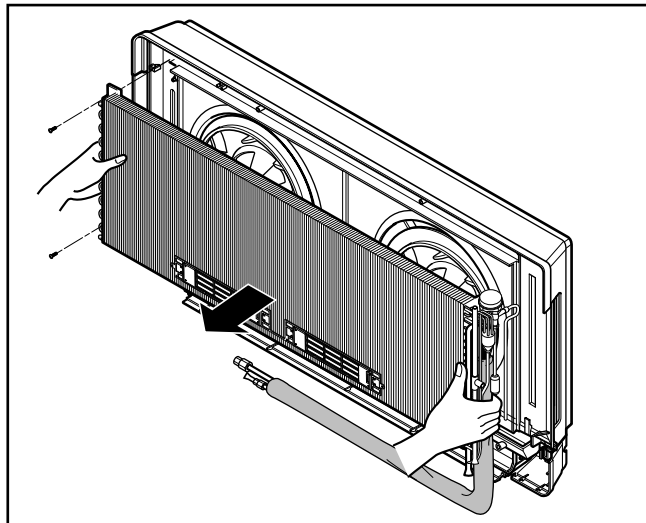
2. To remove the Control Box.

- Before removing the control box, be sure to disconnect the wires from PWB.
- Pull the cover control out from the control box and disconnect other wires.
- Remove securing screws.
- Pull the control box out from the chassis carefully.



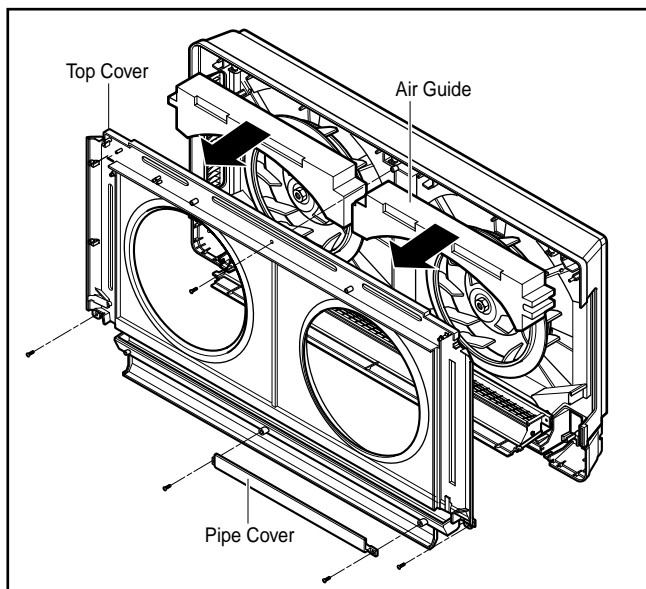
3. To remove the Evaporator.

- Remove 4 screws securing the evaporator.
- Pull the evaporator out from the chassis carefully.



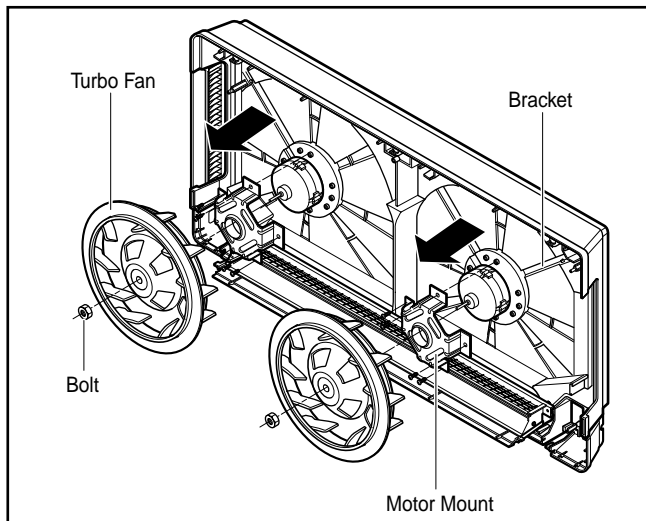
4. Before removing the Turbo Fan.

- Remove the securing screws from the chassis.
- Pull the pipe cover, top cover and the air guide.



5. To remove the Motor.

- Remove the securing bolt from the motor shaft.
- Pull the fan out from the motor shaft.
- Remove 4 screws securing motor mount from the chassis and lift up the motor mount and the bracket.



Outdoor unit

LRUV/LRUN Series

| | |
|--------------------------|-----|
| 1. Specifications | 181 |
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| 3. Dimensions | 219 |
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| 5. Wiring Diagrams | 232 |

1. Specifications

1.1 50Hz

1.1.1 Cooling Only 50Hz

380V, Cooling Only(50Hz)

| HP | | | 5 | 6 | 8 | 10 |
|--------------------|-----------------------|----------------------|--------------------|--------------------|--------------------|----------------------|
| Model Name | | Combination Unit | LRUV508T0 | LRUV608T0 | LRUV808T0 | LRUV1008T0 |
| | | Independent Unit | LRUV508T0 | LRUV608T0 | LRUV808T0 | LRUV1008T0 |
| | | | | | | |
| Capacity | Cooling | W | 14,000 | 16,000 | 22,400 | 28,000 |
| | | kcal/h | 12,000 | 13,800 | 19,300 | 24,100 |
| | | Btu/h | 47,800 | 54,600 | 76,400 | 95,500 |
| | Heating | W | - | - | - | - |
| | | kcal/h | - | - | - | - |
| | | Btu/h | - | - | - | - |
| Input | Cooling | kW | 4.6 | 5.7 | 7.1 | 8.9 |
| | Heating | kW | - | - | - | - |
| Casing Color | | | WARM GRAY | WARM GRAY | WARM GRAY | WARM GRAY |
| Heat Exchanger | | | Louver Fin | Louver Fin | Louver Fin | Louver Fin |
| Compressor | Type | | Scroll | Scroll | Scroll | Scroll |
| | Maker | | LG | LG | LG | LG |
| | Piston Displacement | cm ³ /rev | 77.87 | 77.87 | 77.87 | 77.87+110 |
| | Number of Revolution | r.p.m | 3472 | 3472 | 3472 | 3472, 2900 |
| | Motor Output x Number | W | 4309x1 | 4309x1 | 4309x1 | 4309+4900 |
| | Starting Method | | Direct on Line | Direct on Line | Direct on Line | Direct on Line |
| | Oil Type | | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI |
| | Oil Charge | CC | 2325 ± 10 | 2325 ± 10 | 2325 ± 10 | 2325 ± 10, 2325 ± 10 |
| Fan | Type | | Propeller Fan | Propeller Fan | Propeller Fan | Propeller Fan |
| | Motor Output x Number | W | 291x1 | 291x1 | 291x1 | 291x2 |
| | Air Flow Rate(High) | cmm | 90 | 90 | 90 | 90x2 |
| | | cfm | 3177 | 3177 | 3177 | 3177x2 |
| | Drive | | Inverter | Inverter | Inverter | Inverter |
| | Discharge | Side / Top | Top | Top | Top | Top |
| Pipe Connctions | Liquid Pipes | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) | Ø12.7(1/2) | Ø12.7(1/2) |
| | Gas Pipes | mm(inch) | Ø19.05(3/4) | Ø22.2(7/8) | Ø28.58(1 1/8) | Ø28.58(1 1/8) |
| Dimensions (W*H*D) | | mm | 806 * 1555 * 730 | 806 * 1555 * 730 | 806 * 1555 * 730 | 1280 * 1555 * 730 |
| | | inch | 31.7 * 61.2 * 28.7 | 31.7 * 61.2 * 28.7 | 31.7 * 61.2 * 28.7 | 50.4 * 61.2 * 28.7 |
| Net Weight | | kg | 150 | 150 | 150 | 300 |
| | | lbs | 330.7 | 330.7 | 330.7 | 661.4 |
| Power Supply Cable | | mm ² | CV 5.5X5C | CV 5.5X5C | CV 5.5X5C | CV 8X5C |
| Transmission Cable | | mm ² | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C |
| Refrigerant | Refrigerant name | | R22 | R22 | R22 | R22 |
| | Control | | L.E.V | L.E.V | L.E.V | L.E.V |
| Power Supply | | Ø / V / Hz | 3 / 380 ~ 415 / 50 | 3 / 380 ~ 415 / 50 | 3 / 380 ~ 415 / 50 | 3 / 380 ~ 415 / 50 |

Notes:

1. Capacities are based on the following conditions:

- Cooling * Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
- * Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
- * Interconnecting Piping Length 7.5m
- * Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.:Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m³/min x 35.3

Specifications

380V, Cooling Only(50Hz)

| HP | | | 12 | 14 | 16 | 18 |
|--------------------|-----------------------|----------------------|----------------------|----------------------|---------------------------|---------------------------|
| Model Name | Combination Unit | Independent Unit | LRUV1208T0 | LRUV1408T0 | LRUV1608TS0 | LRUV1808TS0 |
| | | | LRUV1208T0 | LRUV1408T0 | LRUV808TS0 | LRUV1008TS0 |
| | | | | | LRUC808TS0 | LRUC808TS0 |
| Capacity | Cooling | W | 33,600 | 39,200 | 44,800 | 50,400 |
| | | kcal/h | 28,900 | 33,700 | 38,500 | 43,300 |
| | | Btu/h | 114,700 | 133,800 | 152,900 | 172,000 |
| | Heating | W | - | - | - | - |
| | | kcal/h | - | - | - | - |
| | | Btu/h | - | - | - | - |
| Input | Cooling | kW | 11.8 | 13.9 | 14 | 15.9 |
| | Heating | kW | - | - | - | - |
| Casing Color | | | WARM GRAY | WARM GRAY | WARM GRAY | WARM GRAY |
| Heat Exchanger | | | Louver Fin | Louver Fin | Louver Fin | Louver Fin |
| Compressor | Type | | Scroll | Scroll | Scroll | Scroll |
| | Maker | | LG | LG | LG | LG |
| | Piston Displacement | cm ³ /rev | 77.87+110 | 77.87+110 | (77.87+110)+(110+110) | (77.87+110)+(110+110) |
| | Number of Revolution | r.p.m | 3472, 2900 | 3472, 2900 | (3472, 2900)+(2900, 2900) | (3472, 2900)+(2900, 2900) |
| | Motor Output x Number | W | 4309+4900 | 4309+4900 | (4309+4900)+(4900+4900) | (4309+4900)+(4900+4900) |
| | Starting Method | | Direct on Line | Direct on Line | Direct on Line | Direct on Line |
| | Oil Type | | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI |
| | Oil Charge | CC | 2325 ± 10, 2325 ± 10 | 2325 ± 10, 2325 ± 10 | 2325 ± 10, (2325 ± 10)x3 | 2325 ± 10, (2325 ± 10)x3 |
| Fan | Type | | Propeller Fan | Propeller Fan | Propeller Fan | Propeller Fan |
| | Motor Output x Number | W | 291x2 | 291x2 | 291x2+271x2 | 291x2+271x2 |
| | Air Flow Rate(High) | cmm | 90x2 | 90x2 | 90x4 | 90x4 |
| | | cfm | 3177x2 | 3177x2 | 3177x4 | 3177x4 |
| | Drive | | Inverter | Inverter | Inverter | Inverter |
| | Discharge | Side / Top | Top | Top | Top | Top |
| Pipe Connctions | Liquid Pipes | mm(inch) | Ø12.7(1/2) | Ø12.7(1/2) | Ø19.05(3/4) | Ø19.05(3/4) |
| | Gas Pipes | mm(inch) | Ø28.58(1 1/8) | Ø28.58(1 1/8) | Ø38.1(1 1/2) | Ø38.1(1 1/2) |
| Dimensions (W*H*D) | | mm | 1280 * 1555 * 730 | 1280 * 1555 * 730 | (1280 * 1555 * 730)x2 | (1280 * 1555 * 730)x2 |
| | | inch | 50.4 * 61.2 * 28.7 | 50.4 * 61.2 * 28.7 | (50.4 * 61.2 * 28.7)x2 | (50.4 * 61.2 * 28.7)x2 |
| Net Weight | | kg | 300 | 300 | 300x2 | 300x2 |
| | | lbs | 661.4 | 661.4 | 661.4x2 | 661.4x2 |
| Power Supply Cable | | mm ² | CVV-8X5C | CVV-8X5C | CVV-14X5C | CVV-14X5C |
| Transmission Cable | | mm ² | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C |
| Refrigerant | Refrigerant name | | R22 | R22 | R22 | R22 |
| | Control | | L.E.V | L.E.V | L.E.V | L.E.V |
| Power Supply | | Ø / V / Hz | 3 / 380 ~ 415 / 50 | 3 / 380 ~ 415 / 50 | 3 / 380 ~ 415 / 50 | 3 / 380 ~ 415 / 50 |

Notes:

- Capacities are based on the following conditions:
 Cooling * Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 * Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 * Interconnecting Piping Length 7.5m
 * Level Difference of Zero
- Capacities are net capacities
- Due to our policy of innovation some specifications may be changed without notification
- L.E.V.:Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

380V, Cooling Only(50Hz)

| HP | | | 20 | 22 | 24 | 26 |
|--------------------|-----------------------|----------------------|---------------------------|---------------------------|---------------------------|-----------------------------|
| Model Name | | Combination Unit | LRUV2008TS0 | LRUV2208TS0 | LRUV2408TS0 | LRUV2608TR0 |
| | | Independent Unit | LRUV1008TS0 | LRUV1208TS0 | LRUV1208TS0 | LRUV1008TR0 |
| | | | LRUC1008TS0 | LRUC1008TS0 | LRUC1208TS0 | LRUC808TR0 |
| | | | | | | LRUC808TR0 |
| Capacity | Cooling | W | 56,000 | 61,600 | 67,200 | 72,800 |
| | | kcal/h | 48,200 | 53,000 | 57,800 | 62,600 |
| | | Btu/h | 191,100 | 210,200 | 229,300 | 248,400 |
| | Heating | W | - | - | - | - |
| | | kcal/h | - | - | - | - |
| | | Btu/h | - | - | - | - |
| Input | Cooling | kW | 17.8 | 20.7 | 23.6 | 22.9 |
| | Heating | kW | - | - | - | - |
| Casing Color | | | WARM GRAY | WARM GRAY | WARM GRAY | WARM GRAY |
| Heat Exchanger | | | Louver Fin | Louver Fin | Louver Fin | Louver Fin |
| Compressor | Type | | Scroll | Scroll | Scroll | Scroll |
| | Maker | | LG | LG | LG | LG |
| | Piston Displacement | cm ³ /rev | (77.87+110)+(110+110) | (77.87+110)+(110+110) | (77.87+110)+(110+110) | (77.87+110)+(110+110)x2 |
| | Number of Revolution | r.p.m | (3472, 2900)+(2900, 2900) | (3472, 2900)+(2900, 2900) | (3472, 2900)+(2900, 2900) | (3472, 2900)+(2900, 2900)x2 |
| | Motor Output x Number | W | (4309+4900)+(4900+4900) | (4309+4900)+(4900+4900) | (4309+4900)+(4900+4900) | (4309+4900)+(4900+4900)x2 |
| | Starting Method | | Direct on Line | Direct on Line | Direct on Line | Direct on Line |
| | Oil Type | | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI |
| | Oil Charge | CC | 2325 ± 10, (2325 ± 10)x3 | 2325 ± 10, (2325 ± 10)x3 | 2325 ± 10, (2325 ± 10)x3 | 2325 ± 10, (2325 ± 10)x5 |
| Fan | Type | | Propeller Fan | Propeller Fan | Propeller Fan | Propeller Fan |
| | Motor Output x Number | W | 291x2+271x2 | 291x2+271x2 | 291x2+271x2 | 291x2+271x4 |
| | Air Flow Rate(High) | cmm | 90x4 | 90x4 | 90x4 | 90x6 |
| | | cfm | 3177x4 | 3177x4 | 3177x4 | 3177x6 |
| | Drive | | Inverter | Inverter | Inverter | Inverter |
| | Discharge | Side / Top | Top | Top | Top | Top |
| Pipe Connctions | Liquid Pipes | mm(inch) | Ø19.05(3/4) | Ø19.05(3/4) | Ø19.05(3/4) | Ø22.2(7/8) |
| | Gas Pipes | mm(inch) | Ø38.1(1 1/2) | Ø38.1(1 1/2) | Ø38.1(1 1/2) | Ø44.5(1 3/4) |
| Dimensions (W*H*D) | | mm | (1280 * 1555 * 730)x2 | (1280 * 1555 * 730)x2 | (1280 * 1555 * 730)x2 | (1280 * 1555 * 730)x3 |
| | | inch | (50.4 * 61.2 * 28.7)x2 | (50.4 * 61.2 * 28.7)x2 | (50.4 * 61.2 * 28.7)x2 | (50.4 * 61.2 * 28.7)x3 |
| Net Weight | | kg | 300x2 | 300x2 | 300x2 | 300x3 |
| | | lbs | 661.4x2 | 661.4x2 | 661.4x2 | 661.4x3 |
| Power Supply Cable | | mm ² | CV 14X5C | CV 14X5C | CV 14X5C | CV 14X5C |
| Transmission Cable | | mm ² | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C |
| Refrigerant | Refrigerant name | | R22 | R22 | R22 | R22 |
| | Control | | L.E.V | L.E.V | L.E.V | L.E.V |
| Power Supply | | Ø / V / Hz | 3 / 380 ~ 415 / 50 | 3 / 380 ~ 415 / 50 | 3 / 380 ~ 415 / 50 | 3 / 380 ~ 415 / 50 |

Notes:

- Capacities are based on the following conditions:
 Cooling * Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 * Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 * Interconnecting Piping Length 7.5m
 * Level Difference of Zero

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

- Capacities are net capacities
- Due to our policy of innovation some specifications may be changed without notification
- L.E.V.:Linear Expansion Valve

Specifications

380V, Cooling Only(50Hz)

| HP | | | 28 | 30 | 32 | 34 |
|--------------------|-----------------------|----------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Model Name | Combination Unit | Independent Unit | LRUV2808TR0 | LRUV3008TR0 | LRUV3208TR0 | LRUV3408TR0 |
| | | | LRUV808TR0 | LRUV1008TR0 | LRUV1208TR0 | LRUV1408TR0 |
| | | | LRUC1008TR0 | LRUC1008TR0 | LRUC1008TR0 | LRUC1008TR0 |
| | | | LRUC1008TR0 | LRUC1008TR0 | LRUC1008TR0 | LRUC1008TR0 |
| Capacity | Cooling | W | 78,400 | 84,000 | 89,600 | 95,200 |
| | | kcal/h | 67,400 | 72,200 | 77,100 | 81,900 |
| | | Btu/h | 267,500 | 286,600 | 305,700 | 324,800 |
| | Heating | W | - | - | - | - |
| | | kcal/h | - | - | - | - |
| | | Btu/h | - | - | - | - |
| Input | Cooling | kW | 24.8 | 26.7 | 29.6 | 31.7 |
| | Heating | kW | - | - | - | - |
| Casing Color | | | WARM GRAY | WARM GRAY | WARM GRAY | WARM GRAY |
| Heat Exchanger | | | Louver Fin | Louver Fin | Louver Fin | Louver Fin |
| Compressor | Type | | Scroll | Scroll | Scroll | Scroll |
| | Maker | | LG | LG | LG | LG |
| | Piston Displacement | cm ³ /rev | (77.87+110)+(110+110)x2 | (77.87+110)+(110+110)x2 | (77.87+110)+(110+110)x2 | (77.87+110)+(110+110)x2 |
| | Number of Revolution | r.p.m | (3472, 2900)+(2900, 2900)x2 | (3472, 2900)+(2900, 2900)x2 | (3472, 2900)+(2900, 2900)x2 | (3472, 2900)+(2900, 2900)x2 |
| | Motor Output x Number | W | (4309+4900)+(4900+4900)x2 | (4309+4900)+(4900+4900)x2 | (4309+4900)+(4900+4900)x2 | (4309+4900)+(4900+4900)x2 |
| | Starting Method | | Direct on Line | Direct on Line | Direct on Line | Direct on Line |
| | Oil Type | | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI |
| | Oil Charge | CC | 2325 ± 10, (2325 ± 10)x5 | 2325 ± 10, (2325 ± 10)x5 | 2325 ± 10, (2325 ± 10)x5 | 2325 ± 10, (2325 ± 10)x5 |
| Fan | Type | | Propeller Fan | Propeller Fan | Propeller Fan | Propeller Fan |
| | Motor Output x Number | W | 291x2+271x4 | 291x2+271x4 | 291x2+271x4 | 291x2+271x4 |
| | Air Flow Rate(High) | cmm | 90x6 | 90x6 | 90x6 | 90x6 |
| | | cfm | 3177x6 | 3177x6 | 3177x6 | 3177x6 |
| | Drive | | Inverter | Inverter | Inverter | Inverter |
| | Discharge | Side / Top | Top | Top | Top | Top |
| Pipe Connctions | Liquid Pipes | mm(inch) | Ø22.2(7/8) | Ø22.2(7/8) | Ø22.2(7/8) | Ø22.2(7/8) |
| | Gas Pipes | mm(inch) | Ø44.5(1 3/4) | Ø44.5(1 3/4) | Ø44.5(1 3/4) | Ø44.5(1 3/4) |
| Dimensions (W*H*D) | | mm | (1280 * 1555 * 730)x3 | (1280 * 1555 * 730)x3 | (1280 * 1555 * 730)x3 | (1280 * 1555 * 730)x3 |
| | | inch | (50.4 * 61.2 * 28.7)x3 | (50.4 * 61.2 * 28.7)x3 | (50.4 * 61.2 * 28.7)x3 | (50.4 * 61.2 * 28.7)x3 |
| Net Weight | | kg | 300x3 | 300x3 | 300x3 | 300x3 |
| | | lbs | 661.4x3 | 661.4x3 | 661.4x3 | 661.4x3 |
| Power Supply Cable | | mm ² | CV 38X5C | CV 38X5C | CV 38X5C | CV 38X5C |
| Transmission Cable | | mm ² | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C |
| Refrigerant | Refrigerant name | | R22 | R22 | R22 | R22 |
| | Control | | L.E.V | L.E.V | L.E.V | L.E.V |
| Power Supply | | Ø / V / Hz | 3 / 380 ~ 415 / 50 | 3 / 380 ~ 415 / 50 | 3 / 380 ~ 415 / 50 | 3 / 380 ~ 415 / 50 |

Notes:

- Capacities are based on the following conditions:
 Cooling * Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 * Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 * Interconnecting Piping Length 7.5m
 * Level Difference of Zero

- Capacities are net capacities
- Due to our policy of innovation some specifications may be changed without notification
- L.E.V.:Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

380V, Cooling Only(50Hz)

| HP | | | 36 | 38 | 40 |
|--------------------|-----------------------|----------------------|-----------------------------|-----------------------------|-----------------------------|
| Model Name | | Combination Unit | LRUV3608TR0 | LRUV3808TR0 | LRUV4008TR0 |
| | | Independent Unit | LRUV1208TR0 | LRUV1408TR0 | LRUV1608TR0 |
| | | | LRUC1208TR0 | LRUC1208TR0 | LRUC1208TR0 |
| | | | LRUC1208TR0 | LRUC1208TR0 | LRUC1208TR0 |
| Capacity | Cooling | W | 100,800 | 106,400 | 112,000 |
| | | kcal/h | 86,700 | 91,500 | 96,300 |
| | | Btu/h | 343,900 | 363,100 | 382,200 |
| | Heating | W | - | - | - |
| | | kcal/h | - | - | - |
| | | Btu/h | - | - | - |
| Input | Cooling | kW | 35.4 | 37.5 | 39.5 |
| | Heating | kW | - | - | - |
| Casing Color | | | WARM GRAY | WARM GRAY | WARM GRAY |
| Heat Exchanger | | | Louver Fin | Louver Fin | Louver Fin |
| Compressor | Type | | Scroll | Scroll | Scroll |
| | Maker | | LG | LG | LG |
| | Piston Displacement | cm ³ /rev | (77.87+110)+(110+110)x2 | (77.87+110)+(110+110)x2 | (77.87+110)+(110+110)x2 |
| | Number of Revolution | r.p.m | (3472, 2900)+(2900, 2900)x2 | (3472, 2900)+(2900, 2900)x2 | (3472, 2900)+(2900, 2900)x2 |
| | Motor Output x Number | W | (4309+4900)+(4900+4900)x2 | (4309+4900)+(4900+4900)x2 | (4309+4900)+(4900+4900)x2 |
| | Starting Method | | Direct on Line | Direct on Line | Direct on Line |
| | Oil Type | | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI |
| | Oil Charge | CC | 2325 ± 10, (2325 ± 10)x5 | 2325 ± 10, (2325 ± 10)x5 | 2325 ± 10, (2325 ± 10)x5 |
| Fan | Type | | Propeller Fan | Propeller Fan | Propeller Fan |
| | Motor Output x Number | W | 291x2+271x4 | 291x2+271x4 | 291x2+271x4 |
| | Air Flow Rate(High) | cmm | 90x6 | 90x6 | 90x6 |
| | | cfm | 3177x6 | 3177x6 | 3177x6 |
| | Drive | | Inverter | Inverter | Inverter |
| | Discharge | Side / Top | Top | Top | Top |
| Pipe Connctions | Liquid Pipes | mm(inch) | Ø22.2(7/8) | Ø22.2(7/8) | Ø22.2(7/8) |
| | Gas Pipes | mm(inch) | Ø44.5(1 3/4) | Ø44.5(1 3/4) | Ø44.5(1 3/4) |
| Dimensions (W*H*D) | | mm | (1280 * 1555 * 730)x3 | (1280 * 1555 * 730)x3 | (1280 * 1555 * 730)x3 |
| | | inch | (50.4 * 61.2 * 28.7)x3 | (50.4 * 61.2 * 28.7)x3 | (50.4 * 61.2 * 28.7)x3 |
| Net Weight | | kg | 300x3 | 300x3 | 300x3 |
| | | lbs | 661.4x3 | 661.4x3 | 661.4x3 |
| Power Supply Cable | | mm ² | CV 38X5C | CV 38X5C | CV 38X5C |
| Transmission Cable | | mm ² | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C |
| Refrigerant | Refrigerant name | | R22 | R22 | R22 |
| | Control | | L.E.V | L.E.V | L.E.V |
| Power Supply | | Ø / V / Hz | 3 / 380 ~ 415 / 50 | 3 / 380 ~ 415 / 50 | 3 / 380 ~ 415 / 50 |

Notes:

1. Capacities are based on the following conditions:

- Cooling * Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
- * Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
- * Interconnecting Piping Length 7.5m
- * Level Difference of Zero

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.:Linear Expansion Valve

1.1.2 Heat Pump

380V, Heat Pump(50Hz)

| HP | | | 5 | 6 | 8 | 10 |
|--------------------|-----------------------|----------------------|--------------------|--------------------|----------------------|----------------------|
| Model Name | | Combination Unit | LRUN508T0 | LRUN608T0 | LRUN808T0 | LRUN1008T0 |
| | | Independent Unit | LRUN508T0 | LRUN608T0 | LRUN808T0 | LRUN1008T0 |
| | | | | | | |
| Capacity | Cooling | W | 14,000 | 16,000 | 22,400 | 28,000 |
| | | kcal/h | 12,000 | 13,800 | 19,300 | 24,100 |
| | | Btu/h | 47,800 | 54,600 | 76,400 | 95,500 |
| | Heating | W | 15,800 | 18,000 | 25,200 | 31,500 |
| | | kcal/h | 13,600 | 15,500 | 21,700 | 27,100 |
| | | Btu/h | 53,900 | 61,400 | 86,000 | 107,500 |
| Input | Cooling | kW | 4.6 | 5.7 | 7 | 8.9 |
| | Heating | kW | 5.1 | 6.1 | 6.8 | 8.6 |
| Casing Color | | | WARM GRAY | WARM GRAY | WARM GRAY | WARM GRAY |
| Heat Exchanger | | | Louver Fin | Louver Fin | Louver Fin | Louver Fin |
| Compressor | Type | | Scroll | Scroll | Scroll | Scroll |
| | Maker | | LG | LG | LG | LG |
| | Piston Displacement | cm ³ /rev | 77.87 | 77.87 | 77.87+110 | 77.87+110 |
| | Number of Revolution | r.p.m | 3472 | 3472 | 3472, 2900 | 3472, 2900 |
| | Motor Output x Number | W | 4309x1 | 4309x1 | 4309+4900 | 4309+4900 |
| | Starting Method | | Direct on Line | Direct on Line | Direct on Line | Direct on Line |
| | Oil Type | | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI |
| | Oil Charge | CC | 2325 ± 10 | 2325 ± 10 | 2325 ± 10, 2325 ± 10 | 2325 ± 10, 2325 ± 10 |
| Fan | Type | | Propeller Fan | Propeller Fan | Propeller Fan | Propeller Fan |
| | Motor Output x Number | W | 291x1 | 291x1 | 291x2 | 291x2 |
| | Air Flow Rate(High) | cmm | 90 | 90 | 90x2 | 90x2 |
| | | cfm | 3177 | 3177 | 3177x2 | 3177x2 |
| | Drive | | Inverter | Inverter | Inverter | Inverter |
| | Discharge | Side / Top | Top | Top | Top | Top |
| Pipe Connctions | Liquid Pipes | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) | Ø12.7(1/2) | Ø12.7(1/2) |
| | Gas Pipes | mm(inch) | Ø19.05(3/4) | Ø22.2(7/8) | Ø28.58(1 1/8) | Ø28.58(1 1/8) |
| Dimensions (W*H*D) | | mm | 806 * 1555 * 730 | 806 * 1555 * 730 | 1280 * 1555 * 730 | 1280 * 1555 * 730 |
| | | inch | 31.7 * 61.2 * 28.7 | 31.7 * 61.2 * 28.7 | 50.4 * 61.2 * 28.7 | 50.4 * 61.2 * 28.7 |
| Net Weight | | kg | 150 | 150 | 300 | 300 |
| | | lbs | 330.7 | 330.7 | 661.4 | 661.4 |
| Power Supply Cable | | mm ² | CV 5.5X5C | CV 5.5X5C | CV 8X5C | CV 8X5C |
| Transmission Cable | | mm ² | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C |
| Refrigerant | Refrigerant name | | R22 | R22 | R22 | R22 |
| | Control | | L.E.V | L.E.V | L.E.V | L.E.V |
| Power Supply | | Ø / V / Hz | 3 / 380 ~ 415 / 50 | 3 / 380 ~ 415 / 50 | 3 / 380 ~ 415 / 50 | 3 / 380 ~ 415 / 50 |

Notes:

- Capacities are based on the following conditions:
 - Cooling * Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - * Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - * Interconnecting Piping Length 7.5m
 - * Level Difference of Zero
 - Heating * Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 - * Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 - * Interconnecting Piping Length 7.5m
 - * Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.:Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m³/min x 35.3

380V, Heat Pump(50Hz)

| HP | | | 12 | 14 | 16 | 18 |
|--------------------|-----------------------|----------------------|----------------------|----------------------|---------------------------|---------------------------|
| Model Name | | Combination Unit | LRUN1208T0 | LRUN1408T0 | LRUN1608TS0 | LRUN1808TS0 |
| | | Independent Unit | LRUN1208T0 | LRUN1408T0 | LRUN808TS0 | LRUN1008TS0 |
| | | | | | LRUH808TS0 | LRUH808TS0 |
| Capacity | Cooling | W | 33,600 | 39,200 | 44,800 | 50,400 |
| | | kcal/h | 28,900 | 33,700 | 38,500 | 43,300 |
| | | Btu/h | 114,700 | 133,800 | 152,900 | 172,000 |
| | Heating | W | 37,800 | 44,100 | 50,400 | 56,700 |
| | | kcal/h | 32,500 | 37,900 | 43,300 | 48,800 |
| | | Btu/h | 129,000 | 150,500 | 172,000 | 193,500 |
| Input | Cooling | kW | 11.8 | 13.9 | 14 | 15.9 |
| | Heating | kW | 11 | 13 | 13.6 | 15.4 |
| Casing Color | | | WARM GRAY | WARM GRAY | WARM GRAY | WARM GRAY |
| Heat Exchanger | | | Louver Fin | Louver Fin | Louver Fin | Louver Fin |
| Compressor | Type | | Scroll | Scroll | Scroll | Scroll |
| | Maker | | LG | LG | LG | LG |
| | Piston Displacement | cm ³ /rev | 77.87+110 | 77.87+110 | 77.87+110x3 | 77.87+110x3 |
| | Number of Revolution | r.p.m | 3472, 2900 | 3472, 2900 | (3472, 2900)+(2900, 2900) | (3472, 2900)+(2900, 2900) |
| | Motor Output x Number | W | 4309+4900 | 4309+4900 | (4309+4900)+(4900+4900) | (4309+4900)+(4900+4900) |
| | Starting Method | | Direct on Line | Direct on Line | Direct on Line | Direct on Line |
| | Oil Type | | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI |
| | Oil Charge | CC | 2325 ± 10, 2325 ± 10 | 2325 ± 10, 2325 ± 10 | 2325 ± 10, (2325 ± 10)x3 | 2325 ± 10, (2325 ± 10)x3 |
| Fan | Type | | Propeller Fan | Propeller Fan | Propeller Fan | Propeller Fan |
| | Motor Output x Number | W | 291x2 | 291x2 | 291x2+271x2 | 291x2+271x2 |
| | Air Flow Rate(High) | cmm | 90x2 | 90x2 | 90x4 | 90x4 |
| | | cfm | 3177x2 | 3177x2 | 3177x4 | 3177x4 |
| | Drive | | Inverter | Inverter | Inverter | Inverter |
| | Discharge | Side / Top | Top | Top | Top | Top |
| Pipe Connctions | Liquid Pipes | mm(inch) | Ø12.7(1/2) | Ø12.7(1/2) | Ø19.05(3/4) | Ø19.05(3/4) |
| | Gas Pipes | mm(inch) | Ø28.58(1 1/8) | Ø28.58(1 1/8) | Ø38.1(1 1/2) | Ø38.1(1 1/2) |
| Dimensions (W*H*D) | | mm | 1280 * 1555 * 730 | 1280 * 1555 * 730 | (1280 * 1555 * 730)x2 | (1280 * 1555 * 730)x2 |
| | | inch | 50.4 * 61.2 * 28.7 | 50.4 * 61.2 * 28.7 | (50.4 * 61.2 * 28.7)x2 | (50.4 * 61.2 * 28.7)x2 |
| Net Weight | | kg | 300 | 300 | 300x2 | 300x2 |
| | | lbs | 661.4 | 661.4 | 661.4x2 | 661.4x2 |
| Power Supply Cable | | mm ² | CV 8X5C | CV 8X5C | CV 14X5C | CV 14X5C |
| Transmission Cable | | mm ² | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C |
| Refrigerant | Refrigerant name | | R22 | R22 | R22 | R22 |
| | Control | | L.E.V | L.E.V | L.E.V | L.E.V |
| Power Supply | | Ø / V / Hz | 3 / 380 ~ 415 / 50 | 3 / 380 ~ 415 / 50 | 3 / 380 ~ 415 / 50 | 3 / 380 ~ 415 / 50 |

Notes:

1. Capacities are based on the following conditions:

- Cooling * Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 * Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 * Interconnecting Piping Length 7.5m
 * Level Difference of Zero
 Heating * Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 * Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 * Interconnecting Piping Length 7.5m
 * Level Difference of Zero

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.:Linear Expansion Valve

Specifications

380V, Heat Pump(50Hz)

| HP | | | 20 | 22 | 24 | 26 |
|--------------------|-----------------------|----------------------|---------------------------|---------------------------|---------------------------|-----------------------------|
| Model Name | Combination Unit | Independent Unit | LRUN2008TS0 | LRUN2208TS0 | LRUN2408TS0 | LRUN2608TR0 |
| | | | LRUN1008TS0 | LRUN1208TS0 | LRUN1208TS0 | LRUN1008TR0 |
| | | | LRUH1008TS0 | LRUH1008TS0 | LRUH1208TS0 | LRUH808TR0 |
| | | | | | | LRUH808TR0 |
| Capacity | Cooling | W | 56,000 | 61,600 | 67,200 | 72,800 |
| | | kcal/h | 48,200 | 53,000 | 57,800 | 62,600 |
| | | Btu/h | 191,100 | 210,200 | 229,300 | 248,400 |
| | Heating | W | 63,000 | 69,300 | 75,600 | 81,900 |
| | | kcal/h | 54,200 | 59,600 | 65,000 | 70,400 |
| | | Btu/h | 225,000 | 236,500 | 258,000 | 279,500 |
| Input | Cooling | kW | 17.8 | 20.7 | 23.6 | 22.9 |
| | Heating | kW | 17.2 | 19.6 | 22 | 22.2 |
| Casing Color | | | WARM GRAY | WARM GRAY | WARM GRAY | WARM GRAY |
| Heat Exchanger | | | Louver Fin | Louver Fin | Louver Fin | Louver Fin |
| Compressor | Type | | Scroll | Scroll | Scroll | Scroll |
| | Maker | | LG | LG | LG | LG |
| | Piston Displacement | cm ³ /rev | 77.87+110x3 | 77.87+110x3 | 77.87+110x3 | 77.87+110x5 |
| | Number of Revolution | r.p.m | (3472, 2900)+(2900, 2900) | (3472, 2900)+(2900, 2900) | (3472, 2900)+(2900, 2900) | (3472, 2900)+(2900, 2900)x2 |
| | Motor Output x Number | W | (4309+4900)+(4900+4900) | (4309+4900)+(4900+4900) | (4309+4900)+(4900+4900) | (4309+4900)+(4900+4900)x2 |
| | Starting Method | | Direct on Line | Direct on Line | Direct on Line | Direct on Line |
| | Oil Type | | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI |
| | Oil Charge | CC | 2325 ± 10, (2325 ± 10)x3 | 2325 ± 10, (2325 ± 10)x3 | 2325 ± 10, (2325 ± 10)x3 | 2325 ± 10, (2325 ± 10)x5 |
| Fan | Type | | Propeller Fan | Propeller Fan | Propeller Fan | Propeller Fan |
| | Motor Output x Number | W | 291x2+271x2 | 291x2+271x2 | 291x2+271x2 | 291x2+271x4 |
| | Air Flow Rate(High) | cmm | 90x4 | 90x4 | 90x4 | 90x6 |
| | | cfm | 3177x4 | 3177x4 | 3177x4 | 3177x6 |
| | Drive | | Inverter | Inverter | Inverter | Inverter |
| | Discharge | Side / Top | Top | Top | Top | Top |
| Pipe Connctions | Liquid Pipes | mm(inch) | Ø19.05(3/4) | Ø19.05(3/4) | Ø19.05(3/4) | Ø22.2(7/8) |
| | Gas Pipes | mm(inch) | Ø38.1(1 1/2) | Ø38.1(1 1/2) | Ø38.1(1 1/2) | Ø44.5(1 3/4) |
| Dimensions (W*H*D) | | mm | (1280 * 1555 * 730)x2 | (1280 * 1555 * 730)x2 | (1280 * 1555 * 730)x2 | (1280 * 1555 * 730)x3 |
| | | inch | (50.4 * 61.2 * 28.7)x2 | (50.4 * 61.2 * 28.7)x2 | (50.4 * 61.2 * 28.7)x2 | (50.4 * 61.2 * 28.7)x3 |
| Net Weight | | kg | 300x2 | 300x2 | 300x2 | 300x3 |
| | | lbs | 661.4x2 | 661.4x2 | 661.4x2 | 661.4x3 |
| Power Supply Cable | | mm ² | CV 14X5C | CV 14X5C | CV 14X5C | CV 14X5C |
| Transmission Cable | | mm ² | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C |
| Refrigerant | Refrigerant name | | R22 | R22 | R22 | R22 |
| | Control | | L.E.V | L.E.V | L.E.V | L.E.V |
| Power Supply | | Ø / V / Hz | 3 / 380 ~ 415 / 50 | 3 / 380 ~ 415 / 50 | 3 / 380 ~ 415 / 50 | 3 / 380 ~ 415 / 50 |

Notes:

- Capacities are based on the following conditions:
 - Cooling * Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - * Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - * Interconnecting Piping Length 7.5m
 - * Level Difference of Zero
 - Heating * Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 - * Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 - * Interconnecting Piping Length 7.5m
 - * Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.:Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

380V, Heat Pump(50Hz)

| HP | | | 28 | 30 | 32 | 34 |
|--------------------|-----------------------|----------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Model Name | | Combination Unit | LRUN2808TR0 | LRUN3008TR0 | LRUN3208TR0 | LRUN3408TR0 |
| | | Independent Unit | LRUN808TR0 | LRUN1008TR0 | LRUN1208TR0 | LRUN1408TR0 |
| | | | LRUH1008TR0 | LRUH1008TR0 | LRUH1008TR0 | LRUH1008TR0 |
| | | | LRUH1008TR0 | LRUH1008TR0 | LRUH1008TR0 | LRUH1008TR0 |
| Capacity | Cooling | W | 78,400 | 84,000 | 89,600 | 95,200 |
| | | kcal/h | 67,400 | 72,200 | 77,100 | 81,900 |
| | | Btu/h | 267,500 | 286,600 | 305,700 | 324,800 |
| | Heating | W | 88,200 | 94,500 | 100,800 | 107,100 |
| | | kcal/h | 75,900 | 81,300 | 86,700 | 92,100 |
| | | Btu/h | 301,000 | 322,500 | 343,900 | 365,400 |
| Input | Cooling | kW | 24.8 | 26.7 | 29.6 | 31.7 |
| | Heating | kW | 24 | 25.8 | 28.2 | 30.2 |
| Casing Color | | | WARM GRAY | WARM GRAY | WARM GRAY | WARM GRAY |
| Heat Exchanger | | | Louver Fin | Louver Fin | Louver Fin | Louver Fin |
| Compressor | Type | | Scroll | Scroll | Scroll | Scroll |
| | Maker | | LG | LG | LG | LG |
| | Piston Displacement | cm ³ /rev | 77.87+110x5 | 77.87+110x5 | 77.87+110x5 | 77.87+110x5 |
| | Number of Revolution | r.p.m | (3472, 2900)+(2900, 2900)x2 | (3472, 2900)+(2900, 2900)x2 | (3472, 2900)+(2900, 2900)x2 | (3472, 2900)+(2900, 2900)x2 |
| | Motor Output x Number | W | (4309+4900)+(4900+4900)x2 | (4309+4900)+(4900+4900)x2 | (4309+4900)+(4900+4900)x2 | (4309+4900)+(4900+4900)x2 |
| | Starting Method | | Direct on Line | Direct on Line | Direct on Line | Direct on Line |
| | Oil Type | | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI |
| | Oil Charge | CC | 2325 ± 10, (2325 ± 10)x5 | 2325 ± 10, (2325 ± 10)x5 | 2325 ± 10, (2325 ± 10)x5 | 2325 ± 10, (2325 ± 10)x5 |
| Fan | Type | | Propeller Fan | Propeller Fan | Propeller Fan | Propeller Fan |
| | Motor Output x Number | W | 291x2+271x4 | 291x2+271x4 | 291x2+271x4 | 291x2+271x4 |
| | Air Flow Rate(High) | cmm | 90x6 | 90x6 | 90x6 | 90x6 |
| | | cfm | 3177x6 | 3177x6 | 3177x6 | 3177x6 |
| | Drive | | Inverter | Inverter | Inverter | Inverter |
| | Discharge | Side / Top | Top | Top | Top | Top |
| Pipe Connctions | Liquid Pipes | mm(inch) | Ø22.2(7/8) | Ø22.2(7/8) | Ø22.2(7/8) | Ø22.2(7/8) |
| | Gas Pipes | mm(inch) | Ø44.5(1 3/4) | Ø44.5(1 3/4) | Ø44.5(1 3/4) | Ø44.5(1 3/4) |
| Dimensions (W*H*D) | | mm | (1280 * 1555 * 730)x3 | (1280 * 1555 * 730)x3 | (1280 * 1555 * 730)x3 | (1280 * 1555 * 730)x3 |
| | | inch | (50.4 * 61.2 * 28.7)x3 | (50.4 * 61.2 * 28.7)x3 | (50.4 * 61.2 * 28.7)x3 | (50.4 * 61.2 * 28.7)x3 |
| Net Weight | | kg | 300x3 | 300x3 | 300x3 | 300x3 |
| | | lbs | 661.4x3 | 661.4x3 | 661.4x3 | 661.4x3 |
| Power Supply Cable | | mm ² | CV 38X5C | CV 38X5C | CV 38X5C | CV 38X5C |
| Transmission Cable | | mm ² | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C |
| Refrigerant | Refrigerant name | | R22 | R22 | R22 | R22 |
| | Control | | L.E.V | L.E.V | L.E.V | L.E.V |
| Power Supply | | Ø / V / Hz | 3 / 380 ~ 415 / 50 | 3 / 380 ~ 415 / 50 | 3 / 380 ~ 415 / 50 | 3 / 380 ~ 415 / 50 |

Notes:

1. Capacities are based on the following conditions:

- Cooling * Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
- * Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
- * Interconnecting Piping Length 7.5m
- * Level Difference of Zero
- Heating * Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
- * Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
- * Interconnecting Piping Length 7.5m
- * Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.:Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

Specifications

380V, Heat Pump(50Hz)

| HP | | | 36 | 38 | 40 |
|--------------------|-----------------------|----------------------|-----------------------------|-----------------------------|-----------------------------|
| Model Name | | Combination Unit | LRUN3608TR0 | LRUN3808TR0 | LRUN4008TR0 |
| | | Independent Unit | LRUN1208TR0 | LRUN1408TR0 | LRUN1608TR0 |
| | | | LRUH1208TR0 | LRUH1208TR0 | LRUH1208TR0 |
| | | | LRUH1208TR0 | LRUH1208TR0 | LRUH1208TR0 |
| Capacity | Cooling | W | 100,800 | 106,400 | 112,000 |
| | | kcal/h | 86,700 | 91,500 | 96,300 |
| | | Btu/h | 343,900 | 363,100 | 382,200 |
| | Heating | W | 113,400 | 119,700 | 126,000 |
| | | kcal/h | 97,500 | 102,900 | 108,400 |
| | | Btu/h | 386,900 | 408,400 | 429,900 |
| Input | Cooling | kW | 35.4 | 37.5 | 39.5 |
| | Heating | kW | 33 | 35 | 36.8 |
| Casing Color | | | WARM GRAY | WARM GRAY | WARM GRAY |
| Heat Exchanger | | | Louver Fin | Louver Fin | Louver Fin |
| Compressor | Type | | Scroll | Scroll | Scroll |
| | Maker | | LG | LG | LG |
| | Piston Displacement | cm ³ /rev | 77.87+110x5 | 77.87+110x5 | 77.87+110x5 |
| | Number of Revolution | r.p.m | (3472, 2900)+(2900, 2900)x2 | (3472, 2900)+(2900, 2900)x2 | (3472, 2900)+(2900, 2900)x2 |
| | Motor Output x Number | W | (4309+4900)+(4900+4900)x2 | (4309+4900)+(4900+4900)x2 | (4309+4900)+(4900+4900)x2 |
| | Starting Method | | Direct on Line | Direct on Line | Direct on Line |
| | Oil Type | | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI |
| | Oil Charge | CC | 2325 ± 10, (2325 ± 10)x5 | 2325 ± 10, (2325 ± 10)x5 | 2325 ± 10, (2325 ± 10)x5 |
| Fan | Type | | Propeller Fan | Propeller Fan | Propeller Fan |
| | Motor Output x Number | W | 291x2+271x4 | 291x2+271x4 | 291x2+271x4 |
| | Air Flow Rate(High) | cmm | 90x6 | 90x6 | 90x6 |
| | | cfm | 3177x6 | 3177x6 | 3177x6 |
| | Drive | | Inverter | Inverter | Inverter |
| | Discharge | Side / Top | Top | Top | Top |
| Pipe Connctions | Liquid Pipes | mm(inch) | Ø22.2(7/8) | Ø22.2(7/8) | Ø22.2(7/8) |
| | Gas Pipes | mm(inch) | Ø44.5(1 3/4) | Ø44.5(1 3/4) | Ø44.5(1 3/4) |
| Dimensions (W*H*D) | | mm | (1280 * 1555 * 730)x3 | (1280 * 1555 * 730)x3 | (1280 * 1555 * 730)x3 |
| | | inch | (50.4 * 61.2 * 28.7)x3 | (50.4 * 61.2 * 28.7)x3 | (50.4 * 61.2 * 28.7)x3 |
| Net Weight | | kg | 300x3 | 300x3 | 300x3 |
| | | lbs | 661.4x3 | 661.4x3 | 661.4x3 |
| Power Supply Cable | | mm ² | CV 38X5C | CV 38X5C | CV 38X5C |
| Transmission Cable | | mm ² | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C |
| Refrigerant | Refrigerant name | | R22 | R22 | R22 |
| | Control | | L.E.V | L.E.V | L.E.V |
| Power Supply | | Ø / V / Hz | 3 / 380 ~ 415 / 50 | 3 / 380 ~ 415 / 50 | 3 / 380 ~ 415 / 50 |

Notes:

- Capacities are based on the following conditions:
 Cooling * Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 * Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 * Interconnecting Piping Length 7.5m
 * Level Difference of Zero
 Heating * Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 * Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 * Interconnecting Piping Length 7.5m
 * Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.:Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

1.2 60Hz

1.2.1 Cooling Only

380V, Cooling Only(60Hz)

| HP | | | 5 | 6 | 8 | 10 |
|--------------------|-----------------------|----------------------|--------------------|--------------------|--------------------|--------------------|
| Model Name | | Combination Unit | LRUV509T0 | LRUV609T0 | LRUV809T0 | LRUV1009T0 |
| | | Independent Unit | LRUV509T0 | LRUV609T0 | LRUV809T0 | LRUV1009T0 |
| | | | | | | |
| Capacity | Cooling | W | 14,000 | 16,000 | 22,400 | 28,000 |
| | | kcal/h | 12,000 | 13,800 | 19,300 | 24,100 |
| | | Btu/h | 47,800 | 54,600 | 76,400 | 95,500 |
| | Heating | W | - | - | - | - |
| | | kcal/h | - | - | - | - |
| | | Btu/h | - | - | - | - |
| Input | Cooling | kW | 4.6 | 5.7 | 7.1 | 8.9 |
| | Heating | kW | - | - | - | - |
| Casing Color | | | WARM GRAY | WARM GRAY | WARM GRAY | WARM GRAY |
| Heat Exchanger | | | Louver Fin | Louver Fin | Louver Fin | Louver Fin |
| Compressor | Type | | Scroll | Scroll | Scroll | Scroll |
| | Maker | | LG | LG | LG | LG |
| | Piston Displacement | cm ³ /rev | 77.87 | 77.87 | 77.87 | 77.87+110 |
| | Number of Revolution | r.p.m | 3472 | 3472 | 3472 | 3472, 3500 |
| | Motor Output x Number | W | 4309x1 | 4309x1 | 4309x1 | 4309+5700 |
| | Starting Method | | Direct on Line | Direct on Line | Direct on Line | Direct on Line |
| | Oil Type | | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI |
| | Oil Charge | CC | 2325 ±10 | 2325 ±10 | 2325 ±10 | 2325 ±10, 2325 ±10 |
| Fan | Type | | Propeller Fan | Propeller Fan | Propeller Fan | Propeller Fan |
| | Motor Output x Number | W | 291x1 | 291x1 | 291x1 | 291x2 |
| | Air Flow Rate(High) | cmm | 90 | 90 | 90 | 90x2 |
| | | cfm | 3177 | 3177 | 3177x2 | 3177x2 |
| | Drive | | Inverter | Inverter | Inverter | Inverter |
| | Discharge | Side / Top | Top | Top | Top | Top |
| Pipe Connctions | Liquid Pipes | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) | Ø12.7(1/2) | Ø12.7(1/2) |
| | Gas Pipes | mm(inch) | Ø19.05(3/4) | Ø22.2(7/8) | Ø28.58(1 1/8) | Ø28.58(1 1/8) |
| Dimensions (W*H*D) | | mm | 806 * 1555 * 730 | 806 * 1555 * 730 | 806 * 1555 * 730 | 1280 * 1555 * 730 |
| | | inch | 31.7 * 61.2 * 28.7 | 31.7 * 61.2 * 28.7 | 31.7 * 61.2 * 28.7 | 50.4 * 61.2 * 28.7 |
| Net Weight | | kg | 150 | 150 | 150 | 300 |
| | | lbs | 330.7 | 330.7 | 330.7 | 661.4 |
| Power Supply Cable | | mm ² | CV 5.5X5C | CV 5.5X5C | CV 5.5X5C | CV 8X5C |
| Transmission Cable | | mm ² | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C |
| Refrigerant | Refrigerant name | | R22 | R22 | R22 | R22 |
| | Control | | L.E.V | L.E.V | L.E.V | L.E.V |
| Power Supply | | Ø / V / Hz | 3, 380, 60 | 3, 380, 60 | 3, 380, 60 | 3, 380, 60 |

Notes:

1. Capacities are based on the following conditions:

Cooling * Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB

* Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB

* Interconnecting Piping Length 7.5m

* Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.:Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860

Btu/h = kW x 3412

cfm = m³/min x 35.3

Specifications

380V, Cooling Only(60Hz)

| HP | | | 12 | 14 | 16 | 18 |
|--------------------|-----------------------|----------------------|--------------------|--------------------|---------------------------|---------------------------|
| Model Name | Combination Unit | Independent Unit | LRUV1209T0 | LRUV1409T0 | LRUV1609TS0 | LRUV1809TS0 |
| | | | LRUV1209T0 | LRUV1409T0 | LRUV809TS0 | LRUV1009TS0 |
| | | | | | LRUC809TS0 | LRUC809TS0 |
| Capacity | Cooling | W | 33,600 | 39,200 | 44,800 | 50,400 |
| | | kcal/h | 28,900 | 33,700 | 38,500 | 43,300 |
| | | Btu/h | 114,700 | 133,800 | 152,900 | 172,000 |
| | Heating | W | - | - | - | - |
| | | kcal/h | - | - | - | - |
| | | Btu/h | - | - | - | - |
| Input | Cooling | kW | 11.8 | 13.9 | 14 | 15.9 |
| | Heating | kW | - | - | - | - |
| Casing Color | | | WARM GRAY | WARM GRAY | WARM GRAY | WARM GRAY |
| Heat Exchanger | | | Louver Fin | Louver Fin | Louver Fin | Louver Fin |
| Compressor | Type | | Scroll | Scroll | Scroll | Scroll |
| | Maker | | LG | LG | LG | LG |
| | Piston Displacement | cm ³ /rev | 77.87+110 | 77.87+110 | 77.87+110x3 | 77.87+110x3 |
| | Number of Revolution | r.p.m | 3472, 3500 | 3472, 3500 | (3472, 3500)+(3500, 3500) | (3472, 3500)+(3500, 3500) |
| | Motor Output x Number | W | 4309+5700 | 4309+5700 | (4309+5700)+(5700+5700) | (4309+5700)+(5700+5700) |
| | Starting Method | | Direct on Line | Direct on Line | Direct on Line | Direct on Line |
| | Oil Type | | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI |
| | Oil Charge | CC | 2325 ±10, 2325 ±10 | 2325 ±10, 2325 ±10 | 2325 ±10, (2325 ±10)x3 | 2325 ±10, (2325 ±10)x3 |
| Fan | Type | | Propeller Fan | Propeller Fan | Propeller Fan | Propeller Fan |
| | Motor Output x Number | W | 291x2 | 291x2 | 291x2+271x2 | 291x2+271x2 |
| | Air Flow Rate(High) | cmm | 90x2 | 90x2 | 90x4 | 90x4 |
| | | cfm | 3177x2 | 3177x4 | 3177x4 | 3177x4 |
| | Drive | | Inverter | Inverter | Inverter | Inverter |
| | Discharge | Side / Top | Top | Top | Top | Top |
| Pipe Connctions | Liquid Pipes | mm(inch) | Ø12.7(1/2) | Ø12.7(1/2) | Ø19.05(3/4) | Ø19.05(3/4) |
| | Gas Pipes | mm(inch) | Ø28.58(1 1/8) | Ø28.58(1 1/8) | Ø38.1(1 1/2) | Ø38.1(1 1/2) |
| Dimensions (W*H*D) | | mm | 1280 * 1555 * 730 | 1280 * 1555 * 730 | (1280 * 1555 * 730)x2 | (1280 * 1555 * 730)x2 |
| | | inch | 50.4 * 61.2 * 28.7 | 50.4 * 61.2 * 28.7 | (50.4 * 61.2 * 28.7)x2 | (50.4 * 61.2 * 28.7)x2 |
| Net Weight | | kg | 300 | 300 | 300x2 | 300x2 |
| | | lbs | 661.4 | 661.4 | 661.4x2 | 661.4x2 |
| Power Supply Cable | | mm ² | CV 8X5C | CV 8X5C | CV 14X5C | CV 14X5C |
| Transmission Cable | | mm ² | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C |
| Refrigerant | Refrigerant name | | R22 | R22 | R22 | R22 |
| | Control | | L.E.V | L.E.V | L.E.V | L.E.V |
| Power Supply | | Ø / V / Hz | 3, 380, 60 | 3, 380, 60 | 3, 380, 60 | 3, 380, 60 |

Notes:

1. Capacities are based on the following conditions:

Cooling * Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB

* Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB

* Interconnecting Piping Length 7.5m

* Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.:Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860

Btu/h = kW x 3412

cfm = m³/min x 35.3

380V, Cooling Only(60Hz)

| HP | | | 20 | 22 | 24 | 26 |
|--------------------|-----------------------|----------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Model Name | | Combination Unit | LRUV2209TSO | LRUV2209TSO | LRUV2409TSO | LRUV2609TSO |
| | | Independent Unit | LRUV1009TSO | LRUV1209TSO | LRUV1209TSO | LRUV1409TSO |
| | | | LRUC1009TSO | LRUC1009TSO | LRUC1209TSO | LRUC1209TSO |
| Capacity | Cooling | W | 56,000 | 61,600 | 67,200 | 72,800 |
| | | kcal/h | 48,200 | 53,000 | 57,800 | 62,600 |
| | | Btu/h | 191,100 | 210,200 | 229,300 | 248,400 |
| | Heating | W | - | - | - | - |
| | | kcal/h | - | - | - | - |
| | | Btu/h | - | - | - | - |
| Input | Cooling | kW | 17.8 | 20.7 | 23.6 | 25.7 |
| | Heating | kW | - | - | - | - |
| Casing Color | | | WARM GRAY | WARM GRAY | WARM GRAY | WARM GRAY |
| Heat Exchanger | | | Louver Fin | Louver Fin | Louver Fin | Louver Fin |
| Compressor | Type | | Scroll | Scroll | Scroll | Scroll |
| | Maker | | LG | LG | LG | LG |
| | Piston Displacement | cm ³ /rev | 77.87+110x3 | 77.87+110x3 | 77.87+110x3 | 77.87+110x3 |
| | Number of Revolution | r.p.m | (3472, 3500)+(3500, 3500) | (3472, 3500)+(3500, 3500) | (3472, 3500)+(3500, 3500) | (3472, 3500)+(3500, 3500) |
| | Motor Output x Number | W | (4309+5700)+(5700+5700) | (4309+5700)+(5700+5700) | (4309+5700)+(5700+5700) | (4309+5700)+(5700+5700) |
| | Starting Method | | Direct on Line | Direct on Line | Direct on Line | Direct on Line |
| | Oil Type | | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI |
| | Oil Charge | CC | 2325 ±10, (2325 ±10)x3 | 2325 ±10, (2325 ±10)x3 | 2325 ±10, (2325 ±10)x3 | 2325 ±10, (2325 ±10)x3 |
| Fan | Type | | Propeller Fan | Propeller Fan | Propeller Fan | Propeller Fan |
| | Motor Output x Number | W | 291x2+271x2 | 291x2+271x2 | 291x2+271x2 | 291x2+271x2 |
| | Air Flow Rate(High) | cmm | 90x4 | 90x4 | 90x4 | 90x4 |
| | | cfm | 3177x4 | 3177x4 | 3177x4 | 3177x4 |
| | Drive | | Inverter | Inverter | Inverter | Inverter |
| | Discharge | Side / Top | Top | Top | Top | Top |
| Pipe Connctions | Liquid Pipes | mm(inch) | Ø19.05(3/4) | Ø19.05(3/4) | Ø19.05(3/4) | Ø22.2(7/8) |
| | Gas Pipes | mm(inch) | Ø38.1(1 1/2) | Ø38.1(1 1/2) | Ø38.1(1 1/2) | Ø44.5(1 3/4) |
| Dimensions (W*H*D) | | mm | (1280 * 1555 * 730)x2 | (1280 * 1555 * 730)x2 | (1280 * 1555 * 730)x2 | (1280 * 1555 * 730)x2 |
| | | inch | (50.4 * 61.2 * 28.7)x2 | (50.4 * 61.2 * 28.7)x2 | (50.4 * 61.2 * 28.7)x2 | (50.4 * 61.2 * 28.7)x2 |
| Net Weight | | kg | 300x2 | 300x2 | 300x2 | 300x2 |
| | | lbs | 661.4x2 | 661.4x2 | 661.4x2 | 661.4x2 |
| Power Supply Cable | | mm ² | CV 14X5C | CV 14X5C | CV 14X5C | CV 14X5C |
| Transmission Cable | | mm ² | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C |
| Refrigerant | Refrigerant name | | R22 | R22 | R22 | R22 |
| | Control | | L.E.V | L.E.V | L.E.V | L.E.V |
| Power Supply | | Ø / V / Hz | 3 / 380 / 60 | 3 / 380 / 60 | 3 / 380 / 60 | 3 / 380 / 60 |

Notes:

- Capacities are based on the following conditions:
 Cooling * Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 * Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 * Interconnecting Piping Length 7.5m
 * Level Difference of Zero

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

- Capacities are net capacities
- Due to our policy of innovation some specifications may be changed without notification
- L.E.V.:Linear Expansion Valve

Specifications

380V, Cooling Only(60Hz)

| HP | | | 28 | 30 | 32 | 34 |
|--------------------|-----------------------|----------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Model Name | Combination Unit | Independent Unit | LRUV2809TR0 | LRUV3009TR0 | LRUV3209TR0 | LRUV3409TR0 |
| | | | LRUV809TR0 | LRUV1009TR0 | LRUV1209TR0 | LRUV1409TR0 |
| | | | LRUC1009TR0 | LRUC1009TR0 | LRUC1009TR0 | LRUC1009TR0 |
| | | | LRUC1009TR0 | LRUC1009TR0 | LRUC1009TR0 | LRUC1009TR0 |
| Capacity | Cooling | W | 78,400 | 84,000 | 89,600 | 95,200 |
| | | kcal/h | 67,400 | 72,200 | 77,100 | 81,900 |
| | | Btu/h | 267,500 | 286,600 | 305,700 | 324,800 |
| | Heating | W | - | - | - | - |
| | | kcal/h | - | - | - | - |
| | | Btu/h | - | - | - | - |
| Input | Cooling | kW | 24.8 | 26.7 | 29.6 | 31.7 |
| | Heating | kW | - | - | - | - |
| Casing Color | | | WARM GRAY | WARM GRAY | WARM GRAY | WARM GRAY |
| Heat Exchanger | | | Louver Fin | Louver Fin | Louver Fin | Louver Fin |
| Compressor | Type | | Scroll | Scroll | Scroll | Scroll |
| | Maker | | LG | LG | LG | LG |
| | Piston Displacement | cm ³ /rev | 77.87+110x5 | 77.87+110x5 | 77.87+110x5 | 77.87+110x5 |
| | Number of Revolution | r.p.m | (3472, 3500)+(3500, 3500)x2 | (3472, 3500)+(3500, 3500)x2 | (3472, 3500)+(3500, 3500)x2 | (3472, 3500)+(3500, 3500)x2 |
| | Motor Output x Number | W | (4309+5700)+(5700+5700)x2 | (4309+5700)+(5700+5700)x2 | (4309+5700)+(5700+5700)x2 | (4309+5700)+(5700+5700)x2 |
| | Starting Method | | Direct on Line | Direct on Line | Direct on Line | Direct on Line |
| | Oil Type | | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI |
| | Oil Charge | CC | 2325 ±10, (2325 ±10)x5 | 2325 ±10, (2325 ±10)x5 | 2325 ±10, (2325 ±10)x5 | 2325 ±10, (2325 ±10)x5 |
| Fan | Type | | Propeller Fan | Propeller Fan | Propeller Fan | Propeller Fan |
| | Motor Output x Number | W | 291x2+271x4 | 291x2+271x4 | 291x2+271x4 | 291x2+271x4 |
| | Air Flow Rate(High) | cmm | 90x6 | 90x6 | 90x6 | 90x6 |
| | | cfm | 3177x6 | 3177x6 | 3177x6 | 3177x6 |
| | Drive | | Inverter | Inverter | Inverter | Inverter |
| | Discharge | Side / Top | Top | Top | Top | Top |
| Pipe Connctions | Liquid Pipes | mm(inch) | Ø22.2(7/8) | Ø22.2(7/8) | Ø22.2(7/8) | Ø22.2(7/8) |
| | Gas Pipes | mm(inch) | Ø44.5(1 3/4) | Ø44.5(1 3/4) | Ø44.5(1 3/4) | Ø44.5(1 3/4) |
| Dimensions (W*H*D) | | mm | (1280 * 1555 * 730)x3 | (1280 * 1555 * 730)x3 | (1280 * 1555 * 730)x3 | (1280 * 1555 * 730)x3 |
| | | inch | (50.4 * 61.2 * 28.7)x3 | (50.4 * 61.2 * 28.7)x3 | (50.4 * 61.2 * 28.7)x3 | (50.4 * 61.2 * 28.7)x3 |
| Net Weight | | kg | 300x3 | 300x3 | 300x3 | 300x3 |
| | | lbs | 661.4x3 | 661.4x3 | 661.4x3 | 661.4x3 |
| Power Supply Cable | | mm ² | CV 38X5C | CV 38X5C | CV 38X5C | CV 38X5C |
| Transmission Cable | | mm ² | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C |
| Refrigerant | Refrigerant name | | R22 | R22 | R22 | R22 |
| | Control | | L.E.V | L.E.V | L.E.V | L.E.V |
| Power Supply | | Ø / V / Hz | 3 / 380 / 60 | 3 / 380 / 60 | 3 / 380 / 60 | 3 / 380 / 60 |

Notes:

1. Capacities are based on the following conditions:

Cooling * Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB

* Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB

* Interconnecting Piping Length 7.5m

* Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.:Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860

Btu/h = kW x 3412

cfm = m³/min x 35.3

380V, Cooling Only(60Hz)

| HP | | | 36 | 38 | 40 |
|--------------------|-----------------------|----------------------|-----------------------------|-----------------------------|-----------------------------|
| Model Name | | Combination Unit | LRUV3609TR0 | LRUV3809TR0 | LRUV4009TR0 |
| | | Independent Unit | LRUV1209TR0 | LRUV1409TR0 | LRUV1609TR0 |
| | | | LRUC1209TR0 | LRUC1209TR0 | LRUC1209TR0 |
| | | | LRUC1209TR0 | LRUC1209TR0 | LRUC1209TR0 |
| Capacity | Cooling | W | 100,800 | 106,400 | 112,000 |
| | | kcal/h | 86,700 | 91,500 | 96,300 |
| | | Btu/h | 343,900 | 363,100 | 382,200 |
| | Heating | W | - | - | - |
| | | kcal/h | - | - | - |
| | | Btu/h | - | - | - |
| Input | Cooling | kW | 35.4 | 37.5 | 39.5 |
| | Heating | kW | - | - | - |
| Casing Color | | | WARM GRAY | WARM GRAY | WARM GRAY |
| Heat Exchanger | | | Louver Fin | Louver Fin | Louver Fin |
| Compressor | Type | | Scroll | Scroll | Scroll |
| | Maker | | LG | LG | LG |
| | Piston Displacement | cm ³ /rev | 77.87+110x5 | 77.87+110x5 | 77.87+110x5 |
| | Number of Revolution | r.p.m | (3472, 3500)+(3500, 3500)x2 | (3472, 3500)+(3500, 3500)x2 | (3472, 3500)+(3500, 3500)x2 |
| | Motor Output x Number | W | (4309+5700)+(5700+5700)x2 | (4309+5700)+(5700+5700)x2 | (4309+5700)+(5700+5700)x2 |
| | Starting Method | | Direct on Line | Direct on Line | Direct on Line |
| | Oil Type | | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI |
| | Oil Charge | CC | 2325 ±10, (2325 ±10)x5 | 2325 ±10, (2325 ±10)x5 | 2325 ±10, (2325 ±10)x5 |
| Fan | Type | | Propeller Fan | Propeller Fan | Propeller Fan |
| | Motor Output x Number | W | 291x2+271x4 | 291x2+271x4 | 291x2+271x4 |
| | Air Flow Rate(High) | cmm | 90x6 | 90x6 | 90x6 |
| | | cfm | 3177x6 | 3177x6 | 3177x6 |
| | Drive | | Inverter | Inverter | Inverter |
| | Discharge | Side / Top | Top | Top | Top |
| Pipe Connctions | Liquid Pipes | mm(inch) | Ø22.2(7/8) | Ø22.2(7/8) | Ø22.2(7/8) |
| | Gas Pipes | mm(inch) | Ø44.5(1 3/4) | Ø44.5(1 3/4) | Ø44.5(1 3/4) |
| Dimensions (W*H*D) | | mm | (1280 * 1555 * 730)x3 | (1280 * 1555 * 730)x3 | (1280 * 1555 * 730)x3 |
| | | inch | (50.4 * 61.2 * 28.7)x3 | (50.4 * 61.2 * 28.7)x3 | (50.4 * 61.2 * 28.7)x3 |
| Net Weight | | kg | 300x3 | 300x3 | 300x3 |
| | | lbs | 661.4x3 | 661.4x3 | 661.4x3 |
| Power Supply Cable | | mm ² | CV 38X5C | CV 38X5C | CV 38X5C |
| Transmission Cable | | mm ² | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C |
| Refrigerant | Refrigerant name | | R22 | R22 | R22 |
| | Control | | L.E.V | L.E.V | L.E.V |
| Power Supply | | Ø / V / Hz | 3 / 380 / 60 | 3 / 380 / 60 | 3 / 380 / 60 |

Notes:

- Capacities are based on the following conditions:
Cooling * Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
* Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
* Interconnecting Piping Length 7.5m
* Level Difference of Zero

Conversion Formula

Kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m³/min x 35.3

- Capacities are net capacities
- Due to our policy of innovation some specifications may be changed without notification
- L.E.V.:Linear Expansion Valve

Specifications

220V, Cooling Only(60Hz)

| HP | | | 8 | 10 | 12 |
|--------------------|----------------------|----------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Model Name | Combination Unit | | LRUV80BT0 | LRUV100BT0 | LRUV120BT0 |
| | | | LRUV80BT0 | LRUV100BT0 | LRUV120BT0 |
| | Independent Unit | | | | |
| Capacity | Cooling | W | 22,400 | 28,000 | 33,600 |
| | | kcal/h | 19,300 | 24,100 | 28,900 |
| | | Btu/h | 76,400 | 95,500 | 114,700 |
| | Heating | W | - | - | - |
| | | kcal/h | - | - | - |
| | | Btu/h | - | - | - |
| Input | Cooling | kW | 7.7 | 9.8 | 11.8 |
| | Heating | kW | - | - | - |
| Casing Color | | | WARM GRAY | WARM GRAY | WARM GRAY |
| Compressor | Type | | Scroll | Scroll | Scroll |
| | Maker | | LG | LG | LG |
| | Piston Displacement | cm ³ /rev | 53.5+110 | 53.5+110 | 53.5+110 |
| | Number of Revolution | r.p.m | 3460, 3500 | 3460, 3500 | 3460, 3500 |
| | Motor OutputxNumber | kW | 3120+6100 | 3120+6100 | 3120+6100 |
| | Starting Method | | Direct on Line | Direct on Line | Direct on Line |
| | Oil Type | | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI |
| | Oil Charge | CC | 1950 ± 10, 2325 ± 10 | 1950 ± 10, 2325 ± 10 | 1950 ± 10, 2325 ± 10 |
| Fan | Type | | Propeller Fan | Propeller Fan | Propeller Fan |
| | Motor OutputxNumber | W | 291x2 | 291x2 | 291x2 |
| | Air Flow Rate(High) | cmm | 90x2 | 90x2 | 90x2 |
| | | cfm | 3177x2 | 3177x2 | 3177x2 |
| | Drive | | Inverter | Inverter | Inverter |
| | Discharge | Side / Top | Top | Top | Top |
| Pipe Connctions | Liquid Pipes | mm(inch) | Ø12.7(1/2) | Ø12.7(1/2) | Ø12.7(1/2) |
| | Gas Pipes | mm(inch) | Ø28.58(1 1/8) | Ø28.58(1 1/8) | Ø28.58(1 1/8) |
| Dimensions (W*H*D) | | mm(inch) | 1280 * 1555 * 730(50.4 * 61.2 * 28.7) | 1280 * 1555 * 730(50.4 * 61.2 * 28.7) | 1280 * 1555 * 730(50.4 * 61.2 * 28.7) |
| Net Weight | | kg(lbs) | 300(661.4) | 300(661.4) | 300(661.4) |
| Power Supply Cable | | mm ² | CV 22X5C | CV 22X5C | CV 22X5C |
| Transmission Cable | | mm ² | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C |
| Refrigerant | Refrigerant name | | R22 | R22 | R22 |
| | Control | | L.E.V | L.E.V | L.E.V |
| Power Supply | | Ø / V / Hz | 3, 220, 60 | 3, 220, 60 | 3, 220, 60 |

Notes:

- Capacities are based on the following conditions:
 Cooling * Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 * Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 * Interconnecting Piping Length 7.5m
 * Level Difference of Zero

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

- Capacities are net capacities
- Due to our policy of innovation some specifications may be changed without notification
- L.E.V.:Linear Expansion Valve

1.2.2 Heat Pump

380V, Heat Pump(60Hz)

| HP | | | 5 | 6 | 8 | 10 |
|--------------------|-----------------------|----------------------|--------------------|--------------------|----------------------|----------------------|
| Model Name | | Combination Unit | LRUN509T0 | LRUN609T0 | LRUN809T0 | LRUN1009T0 |
| | | Independent Unit | LRUN509T0 | LRUN609T0 | LRUN809T0 | LRUN1009T0 |
| | | | | | | |
| Capacity | Cooling | W | 14,000 | 16,000 | 22,400 | 28,000 |
| | | kcal/h | 12,000 | 13,800 | 19,300 | 24,100 |
| | | Btu/h | 47,800 | 54,600 | 76,400 | 95,500 |
| | Heating | W | 15,800 | 18,000 | 25,200 | 31,500 |
| | | kcal/h | 13,600 | 15,500 | 21,700 | 27,100 |
| | | Btu/h | 53,900 | 61,400 | 86,000 | 107,500 |
| Input | Cooling | kW | 4.6 | 5.7 | 7 | 8.9 |
| | Heating | kW | 5.1 | 6.1 | 6.8 | 8.6 |
| Casing Color | | | WARM GRAY | WARM GRAY | WARM GRAY | WARM GRAY |
| Heat Exchanger | | | Louver Fin | Louver Fin | Louver Fin | Louver Fin |
| Compressor | Type | | Scroll | Scroll | Scroll | Scroll |
| | Maker | | LG | LG | LG | LG |
| | Piston Displacement | cm ³ /rev | 77.87 | 77.87 | 77.87+110 | 77.87+110 |
| | Number of Revolution | r.p.m | 3472 | 3472 | 3472, 3500 | 3472, 3500 |
| | Motor Output x Number | W | 4309x1 | 4309x1 | 4309+5700 | 4309+5700 |
| | Starting Method | | Direct on Line | Direct on Line | Direct on Line | Direct on Line |
| | Oil Type | | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI |
| | Oil Charge | CC | 2325 ± 10 | 2325 ± 10 | 2325 ± 10, 2325 ± 10 | 2325 ± 10, 2325 ± 10 |
| Fan | Type | | Propeller Fan | Propeller Fan | Propeller Fan | Propeller Fan |
| | Motor Output x Number | W | 291x1 | 291x1 | 291x2 | 291x2 |
| | Air Flow Rate(High) | cmm | 90 | 90 | 90x2 | 90x2 |
| | | cfm | 3177 | 3177 | 3177x2 | 3177x2 |
| | Drive | | Inverter | Inverter | Inverter | Inverter |
| | Discharge | Side / Top | Top | Top | Top | Top |
| Pipe Connctions | Liquid Pipes | mm(inch) | Ø9.52(3/8) | Ø9.52(3/8) | Ø12.7(1/2) | Ø12.7(1/2) |
| | Gas Pipes | mm(inch) | Ø19.05(3/4) | Ø22.2(7/8) | Ø28.58(1 1/8) | Ø28.58(1 1/8) |
| Dimensions (W*H*D) | | mm | 806 * 1555 * 730 | 806 * 1555 * 730 | 1280 * 1555 * 730 | 1280 * 1555 * 730 |
| | | inch | 31.7 * 61.2 * 28.7 | 31.7 * 61.2 * 28.7 | 50.4 * 61.2 * 28.7 | 50.4 * 61.2 * 28.7 |
| Net Weight | | kg | 150 | 150 | 300 | 300 |
| | | lbs | 330.7 | 330.7 | 661.4 | 661.4 |
| Power Supply Cable | | mm ² | CV 5.5X5C | CV 5.5X5C | CV 8X5C | CV 8X5C |
| Transmission Cable | | mm ² | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C |
| Refrigerant | Refrigerant name | | R22 | R22 | R22 | R22 |
| | Control | | L.E.V | L.E.V | L.E.V | L.E.V |
| Power Supply | | Ø / V / Hz | 3 / 380 / 60 | 3 / 380 / 60 | 3 / 380 / 60 | 3 / 380 / 60 |

Notes:

1. Capacities are based on the following conditions:

- Cooling * Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
- * Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
- * Interconnecting Piping Length 7.5m
- * Level Difference of Zero
- Heating * Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
- * Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
- * Interconnecting Piping Length 7.5m
- * Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.:Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

Specifications

380V, Heat Pump(60Hz)

| HP | | | 12 | 14 | 16 | 18 |
|--------------------|-----------------------|----------------------|----------------------|----------------------|---------------------------|---------------------------|
| Model Name | Combination Unit | | LRUN1209T0 | LRUN1409T0 | LRUN1609TS0 | LRUN1809TS0 |
| | | Independent Unit | LRUN1209T0 | LRUN1409T0 | LRUN809TS0 | LRUN1009TS0 |
| | | | | | LRUH809TS0 | LRUH809TS0 |
| Capacity | Cooling | W | 33,600 | 39,200 | 44,800 | 50,400 |
| | | kcal/h | 28,900 | 33,700 | 38,500 | 43,300 |
| | | Btu/h | 114,700 | 133,800 | 152,900 | 172,000 |
| | Heating | W | 37,800 | 44,100 | 50,400 | 56,700 |
| | | kcal/h | 32,500 | 37,900 | 43,300 | 48,800 |
| | | Btu/h | 129,000 | 150,500 | 172,000 | 193,500 |
| Input | Cooling | kW | 11.8 | 13.9 | 14 | 15.9 |
| | Heating | kW | 11 | 13 | 13.6 | 15.4 |
| Casing Color | | | WARM GRAY | WARM GRAY | WARM GRAY | WARM GRAY |
| Heat Exchanger | | | Louver Fin | Louver Fin | Louver Fin | Louver Fin |
| Compressor | Type | | Scroll | Scroll | Scroll | Scroll |
| | Maker | | LG | LG | LG | LG |
| | Piston Displacement | cm ³ /rev | 77.87+110 | 77.87+110 | 77.87+110x3 | 77.87+110x3 |
| | Number of Revolution | r.p.m | 3472, 3500 | 3472, 3500 | (3472, 3500)+(3500, 3500) | (3472, 3500)+(3500, 3500) |
| | Motor Output x Number | W | 4309+5700 | 4309+5700 | (4309+5700)+(5700+5700) | (4309+5700)+(5700+5700) |
| | Starting Method | | Direct on Line | Direct on Line | Direct on Line | Direct on Line |
| | Oil Type | | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI |
| | Oil Charge | CC | 2325 ± 10, 2325 ± 10 | 2325 ± 10, 2325 ± 10 | 2325 ± 10, (2325 ± 10)x3 | 2325 ± 10, (2325 ± 10)x3 |
| Fan | Type | | Propeller Fan | Propeller Fan | Propeller Fan | Propeller Fan |
| | Motor Output x Number | W | 750+750 | 291x2+271x2 | 291x2+271x2 | 291x2+271x2 |
| | Air Flow Rate(High) | cmm | 90x2 | 90x2 | 90x4 | 90x4 |
| | | cfm | 3177x2 | 3177x2 | 3177x4 | 3177x4 |
| | Drive | | Inverter | Inverter | Inverter | Inverter |
| | Discharge | Side / Top | Top | Top | Top | Top |
| Pipe Connctions | Liquid Pipes | mm(inch) | Ø12.7(1/2) | Ø12.7(1/2) | Ø19.05(3/4) | Ø19.05(3/4) |
| | Gas Pipes | mm(inch) | Ø28.58(1 1/8) | Ø28.58(1 1/8) | Ø38.1(1 1/2) | Ø38.1(1 1/2) |
| Dimensions (W*H*D) | | mm | 1280 * 1555 * 730 | 1280 * 1555 * 730 | (1280 * 1555 * 730)x2 | (1280 * 1555 * 730)x2 |
| | | inch | 50.4 * 61.2 * 28.7 | 50.4 * 61.2 * 28.7 | (50.4 * 61.2 * 28.7)x2 | (50.4 * 61.2 * 28.7)x2 |
| Net Weight | | kg | 300 | 300 | 300x2 | 300x2 |
| | | lbs | 661.4 | 661.4 | 661.4x2 | 661.4x2 |
| Power Supply Cable | | mm ² | CV 8X5C | CV 8X5C | CV 14X5C | CV 14X5C |
| Transmission Cable | | mm ² | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C |
| Refrigerant | Refrigerant name | | R22 | R22 | R22 | R22 |
| | Control | | L.E.V | L.E.V | L.E.V | L.E.V |
| Power Supply | | Ø / V / Hz | 3 / 380 / 60 | 3 / 380 / 60 | 3 / 380 / 60 | 3 / 380 / 60 |

Notes:

1. Capacities are based on the following conditions:

- Cooling * Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
- * Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
- * Interconnecting Piping Length 7.5m
- * Level Difference of Zero
- Heating * Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
- * Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
- * Interconnecting Piping Length 7.5m
- * Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.:Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m³/min x 35.3

380V, Heat Pump(60Hz)

| HP | | | 20 | 22 | 24 | 26 |
|--------------------|-----------------------|----------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Model Name | | Combination Unit | LRUN2009TS0 | LRUN2209TS0 | LRUN2409TS0 | LRUN2609TS0 |
| | | Independent Unit | LRUN1009TS0 | LRUN1209TS0 | LRUN1209TS0 | LRUN1409TS0 |
| | | | LRUH1009TS0 | LRUH1009TS0 | LRUH1209TS0 | LRUH1209TS0 |
| Capacity | Cooling | W | 56,000 | 61,600 | 67,200 | 72,800 |
| | | kcal/h | 48,200 | 53,000 | 57,800 | 62,600 |
| | | Btu/h | 191,100 | 210,200 | 229,300 | 248,400 |
| | Heating | W | 63,000 | 69,300 | 75,600 | 81,900 |
| | | kcal/h | 54,200 | 59,600 | 65,000 | 70,400 |
| | | Btu/h | 225,000 | 236,500 | 258,000 | 279,500 |
| Input | Cooling | kW | 17.8 | 20.7 | 23.6 | 25.7 |
| | Heating | kW | 17.2 | 19.6 | 22 | 24 |
| Casing Color | | | WARM GRAY | WARM GRAY | WARM GRAY | WARM GRAY |
| Heat Exchanger | | | Louver Fin | Louver Fin | Louver Fin | Louver Fin |
| Compressor | Type | | Scroll | Scroll | Scroll | Scroll |
| | Maker | | LG | LG | LG | LG |
| | Piston Displacement | cm ³ /rev | 77.87+110x3 | 77.87+110x3 | 77.87+110x3 | 77.87+110x3 |
| | Number of Revolution | r.p.m | (3472, 3500)+(3500, 3500) | (3472, 3500)+(3500, 3500) | (3472, 3500)+(3500, 3500) | (3472, 3500)+(3500, 3500) |
| | Motor Output x Number | W | (4309+5700)+(5700+5700) | (4309+5700)+(5700+5700) | (4309+5700)+(5700+5700) | (4309+5700)+(5700+5700) |
| | Starting Method | | Direct on Line | Direct on Line | Direct on Line | Direct on Line |
| | Oil Type | | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI |
| | Oil Charge | CC | 2325 ± 10, (2325 ± 10)x3 | 2325 ± 10, (2325 ± 10)x3 | 2325 ± 10, (2325 ± 10)x3 | 2325 ± 10, (2325 ± 10)x3 |
| Fan | Type | | Propeller Fan | Propeller Fan | Propeller Fan | Propeller Fan |
| | Motor Output x Number | W | 291x2+271x2 | 291x2+271x2 | 291x2+271x2 | 291x2+271x4 |
| | Air Flow Rate(High) | cmm | 90x4 | 90x4 | 90x4 | 90x4 |
| | | cfm | 3177x4 | 3177x4 | 3177x4 | 3177x4 |
| | Drive | | Inverter | Inverter | Inverter | Inverter |
| | Discharge | Side / Top | Top | Top | Top | Top |
| Pipe Connctions | Liquid Pipes | mm(inch) | Ø19.05(3/4) | Ø19.05(3/4) | Ø19.05(3/4) | Ø19.05(3/4) |
| | Gas Pipes | mm(inch) | Ø38.1(1 1/2) | Ø38.1(1 1/2) | Ø38.1(1 1/2) | Ø38.1(1 1/2) |
| Dimensions (W*H*D) | | mm | (1280 * 1555 * 730)x2 | (1280 * 1555 * 730)x2 | (1280 * 1555 * 730)x2 | (1280 * 1555 * 730)x2 |
| | | inch | (50.4 * 61.2 * 28.7)x2 | (50.4 * 61.2 * 28.7)x2 | (50.4 * 61.2 * 28.7)x2 | (50.4 * 61.2 * 28.7)x2 |
| Net Weight | | kg | 300x2 | 300x2 | 300x2 | 300x2 |
| | | lbs | 661.4x2 | 661.4x2 | 661.4x2 | 661.4x2 |
| Power Supply Cable | | mm ² | CV 14X5C | CV 14X5C | CV 14X5C | CV 14X5C |
| Transmission Cable | | mm ² | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C |
| Refrigerant | Refrigerant name | | R22 | R22 | R22 | R22 |
| | Control | | L.E.V | L.E.V | L.E.V | L.E.V |
| Power Supply | | Ø / V / Hz | 3 / 380 / 60 | 3 / 380 / 60 | 3 / 380 / 60 | 3 / 380 / 60 |

Notes:

1. Capacities are based on the following conditions:

- Cooling * Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 * Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 * Interconnecting Piping Length 7.5m
 * Level Difference of Zero
 Heating * Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 * Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 * Interconnecting Piping Length 7.5m
 * Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.:Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

Specifications

380V, Heat Pump(60Hz)

| HP | | | 28 | 30 | 32 | 34 |
|--------------------|-----------------------|----------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Model Name | Combination Unit | Independent Unit | LRUN2809TR0 | LRUN3009TR0 | LRUN3209TR0 | LRUN3409TR0 |
| | | | LRUN809TR0 | LRUN1009TR0 | LRUN1209TR0 | LRUN1409TR0 |
| | | | LRUH1009TR0 | LRUH1009TR0 | LRUH1009TR0 | LRUH1009TR0 |
| | | | LRUH1009TR0 | LRUH1009TR0 | LRUH1009TR0 | LRUH1009TR0 |
| Capacity | Cooling | W | 78,400 | 84,000 | 89,600 | 95,200 |
| | | kcal/h | 67,400 | 72,200 | 77,100 | 81,900 |
| | | Btu/h | 267,500 | 286,600 | 305,700 | 324,800 |
| | Heating | W | 88,200 | 94,500 | 100,800 | 107,100 |
| | | kcal/h | 75,900 | 81,300 | 86,700 | 92,100 |
| | | Btu/h | 301,000 | 322,500 | 343,900 | 365,400 |
| Input | Cooling | kW | 24.8 | 26.7 | 29.6 | 31.7 |
| | Heating | kW | 24 | 25.8 | 28.2 | 30.2 |
| Casing Color | | | WARM GRAY | WARM GRAY | WARM GRAY | WARM GRAY |
| Heat Exchanger | | | Louver Fin | Louver Fin | Louver Fin | Louver Fin |
| Compressor | Type | | Scroll | Scroll | Scroll | Scroll |
| | Maker | | LG | LG | LG | LG |
| | Piston Displacement | cm ³ /rev | 77.87+110x5 | 77.87+110x5 | 77.87+110x5 | 77.87+110x5 |
| | Number of Revolution | r.p.m | (3472, 3500)+(3500, 3500)x2 | (3472, 3500)+(3500, 3500)x2 | (3472, 3500)+(3500, 3500)x2 | (3472, 3500)+(3500, 3500)x2 |
| | Motor Output x Number | W | (4309+5700)+(5700+5700)x2 | (4309+5700)+(5700+5700)x2 | (4309+5700)+(5700+5700)x2 | (4309+5700)+(5700+5700)x2 |
| | Starting Method | | Direct on Line | Direct on Line | Direct on Line | Direct on Line |
| | Oil Type | | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI |
| | Oil Charge | CC | 2325 ± 10, (2325 ± 10)x5 | 2325 ± 10, (2325 ± 10)x5 | 2325 ± 10, (2325 ± 10)x5 | 2325 ± 10, (2325 ± 10)x5 |
| Fan | Type | | Propeller Fan | Propeller Fan | Propeller Fan | Propeller Fan |
| | Motor Output x Number | W | 291x2+271x4 | 291x2+271x4 | 291x2+271x4 | 291x2+271x4 |
| | Air Flow Rate(High) | cmm | 90x6 | 90x6 | 90x6 | 90x6 |
| | | cfm | 3177x6 | 3177x6 | 3177x6 | 3177x6 |
| | Drive | | Inverter | Inverter | Inverter | Inverter |
| | Discharge | Side / Top | Top | Top | Top | Top |
| Pipe Connctions | Liquid Pipes | mm(inch) | Ø22.2(7/8) | Ø22.2(7/8) | Ø22.2(7/8) | Ø22.2(7/8) |
| | Gas Pipes | mm(inch) | Ø44.5(1 3/4) | Ø44.5(1 3/4) | Ø44.5(1 3/4) | Ø44.5(1 3/4) |
| Dimensions (W*H*D) | | mm | (1280 * 1555 * 730)x3 | (1280 * 1555 * 730)x3 | (1280 * 1555 * 730)x3 | (1280 * 1555 * 730)x3 |
| | | inch | (50.4 * 61.2 * 28.7)x3 | (50.4 * 61.2 * 28.7)x3 | (50.4 * 61.2 * 28.7)x3 | (50.4 * 61.2 * 28.7)x3 |
| Net Weight | | kg | 300x3 | 300x3 | 300x3 | 300x3 |
| | | lbs | 661.4x3 | 661.4x3 | 661.4x3 | 661.4x3 |
| Power Supply Cable | | mm ² | CV 38X5C | CV 38X5C | CV 38X5C | CV 38X5C |
| Transmission Cable | | mm ² | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C |
| Refrigerant | Refrigerant name | | R22 | R22 | R22 | R22 |
| | Control | | L.E.V | L.E.V | L.E.V | L.E.V |
| Power Supply | | Ø / V / Hz | 3 / 380 / 60 | 3 / 380 / 60 | 3 / 380 / 60 | 3 / 380 / 60 |

Notes:

1. Capacities are based on the following conditions:

- Cooling * Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
- * Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
- * Interconnecting Piping Length 7.5m
- * Level Difference of Zero
- Heating * Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
- * Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
- * Interconnecting Piping Length 7.5m
- * Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.:Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
Btu/h = kW x 3412
cfm = m³/min x 35.3

380V, Heat Pump(60Hz)

| HP | | | 36 | 38 | 40 |
|--------------------|-----------------------|----------------------|-----------------------------|-----------------------------|-----------------------------|
| Model Name | | Combination Unit | LRUN3609TR0 | LRUN3809TR0 | LRUN4009TR0 |
| | | Independent Unit | LRUN1209TR0 | LRUN1409TR0 | LRUN1609TR0 |
| | | | LRUH1209TR0 | LRUH1209TR0 | LRUH1209TR0 |
| | | | LRUH1209TR0 | LRUH1209TR0 | LRUH1209TR0 |
| Capacity | Cooling | W | 100,800 | 106,400 | 112,000 |
| | | kcal/h | 86,700 | 91,500 | 96,300 |
| | | Btu/h | 343,900 | 363,100 | 382,200 |
| | Heating | W | 113,400 | 119,700 | 126,000 |
| | | kcal/h | 97,500 | 102,900 | 108,400 |
| | | Btu/h | 386,900 | 408,400 | 429,900 |
| Input | Cooling | kW | 35.4 | 37.5 | 39.5 |
| | Heating | kW | 33 | 35 | 36.8 |
| Casing Color | | | WARM GRAY | WARM GRAY | WARM GRAY |
| Heat Exchanger | | | Louver Fin | Louver Fin | Louver Fin |
| Compressor | Type | | Scroll | Scroll | Scroll |
| | Maker | | LG | LG | LG |
| | Piston Displacement | cm ³ /rev | 77.87+110x5 | 77.87+110x5 | 77.87+110x5 |
| | Number of Revolution | r.p.m | (3472, 3500)+(3500, 3500)x2 | (3472, 3500)+(3500, 3500)x2 | (3472, 3500)+(3500, 3500)x2 |
| | Motor Output x Number | W | (4309+5700)+(5700+5700)x2 | (4309+5700)+(5700+5700)x2 | (4309+5700)+(5700+5700)x2 |
| | Starting Method | | Direct on Line | Direct on Line | Direct on Line |
| | Oil Type | | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI |
| | Oil Charge | CC | 2325 ± 10, (2325 ± 10)x5 | 2325 ± 10, (2325 ± 10)x5 | 2325 ± 10, (2325 ± 10)x5 |
| Fan | Type | | Propeller Fan | Propeller Fan | Propeller Fan |
| | Motor Output x Number | W | 291x2+271x4 | 291x2+271x4 | 291x2+271x4 |
| | Air Flow Rate(High) | cmm | 90x6 | 90x6 | 90x6 |
| | | cfm | 3177x6 | 3177x6 | 3177x6 |
| | Drive | | Inverter | Inverter | Inverter |
| Pipe Connctions | Discharge | Side / Top | Top | Top | Top |
| | Liquid Pipes | mm(inch) | Ø22.2(7/8) | Ø22.2(7/8) | Ø22.2(7/8) |
| | Gas Pipes | mm(inch) | Ø44.5(1 3/4) | Ø44.5(1 3/4) | Ø44.5(1 3/4) |
| Dimensions (W*H*D) | | mm | (1280 * 1555 * 730)x3 | (1280 * 1555 * 730)x3 | (1280 * 1555 * 730)x3 |
| | | inch | (50.4 * 61.2 * 28.7)x3 | (50.4 * 61.2 * 28.7)x3 | (50.4 * 61.2 * 28.7)x3 |
| Net Weight | | kg | 300x3 | 300x3 | 300x3 |
| | | lbs | 661.4x3 | 661.4x3 | 661.4x3 |
| Power Supply Cable | | mm ² | CV 38X5C | CV 38X5C | CV 38X5C |
| Transmission Cable | | mm ² | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C |
| Refrigerant | Refrigerant name | | R22 | R22 | R22 |
| | Control | | L.E.V | L.E.V | L.E.V |
| Power Supply | | Ø / V / Hz | 3 / 380 / 60 | 3 / 380 / 60 | 3 / 380 / 60 |

Notes:

1. Capacities are based on the following conditions:

- Cooling * Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
- * Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
- * Interconnecting Piping Length 7.5m
- * Level Difference of Zero
- Heating * Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
- * Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
- * Interconnecting Piping Length 7.5m
- * Level Difference of Zero

2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. L.E.V.:Linear Expansion Valve

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

Specifications

220V, Heat Pump(60Hz)

| HP | | | 8 | 10 | 12 |
|--------------------|----------------------|----------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Model Name | Combination Unit | | LRUN80BT0 | LRUN100BT0 | LRUN120BT0 |
| | | | LRUN80BT0 | LRUN100BT0 | LRUN120BT0 |
| | Independent Unit | | | | |
| Capacity | Cooling | W | 22,400 | 28,000 | 33,600 |
| | | kcal/h | 19,300 | 24,100 | 28,900 |
| | | Btu/h | 76,400 | 95,500 | 114,700 |
| | Heating | W | 25,200 | 31,500 | 37,800 |
| | | kcal/h | 21,700 | 27,100 | 32,500 |
| | | Btu/h | 86,000 | 107,500 | 129,000 |
| Input | Cooling | kW | 7.7 | 9.8 | 11.8 |
| | Heating | kW | 7.5 | 9.6 | 11.5 |
| Casing Color | | | WARM GRAY | WARM GRAY | WARM GRAY |
| Compressor | Type | | Scroll | Scroll | Scroll |
| | Maker | | LG | LG | LG |
| | Piston Displacement | cm ³ /rev | 53.5+110 | 53.5+110 | 53.5+110 |
| | Number of Revolution | r.p.m | 3460, 3500 | 3460, 3500 | 3460, 3500 |
| | Motor OutputxNumber | kW | 3120+6100 | 3120+6100 | 3120+6100 |
| | Starting Method | | Direct on Line | Direct on Line | Direct on Line |
| | Oil Type | | SUNISO 4GSI | SUNISO 4GSI | SUNISO 4GSI |
| | Oil Charge | CC | 1950 ± 10, 2325 ± 10 | 1950 ± 10, 2325 ± 10 | 1950 ± 10, 2325 ± 10 |
| Fan | Type | | Propeller Fan | Propeller Fan | Propeller Fan |
| | Motor OutputxNumber | W | 291x2 | 291x2 | 291x2 |
| | Air Flow Rate(High) | cmm | 90x2 | 90x2 | 90x2 |
| | | cfm | 3177x2 | 3177x2 | 3177x2 |
| | Drive | | Inverter | Inverter | Inverter |
| | Discharge | Side / Top | Top | Top | Top |
| Pipe Connctions | Liquid Pipes | mm(inch) | Ø12.7(1/2) | Ø12.7(1/2) | Ø12.7(1/2) |
| | Gas Pipes | mm(inch) | Ø28.58(1 1/8) | Ø28.58(1 1/8) | Ø28.58(1 1/8) |
| Dimensions (W*H*D) | | mm(inch) | 1280 * 1555 * 730(50.4 * 61.2 * 28.7) | 1280 * 1555 * 730(50.4 * 61.2 * 28.7) | 1280 * 1555 * 730(50.4 * 61.2 * 28.7) |
| Net Weight | | kg(lbs) | 300(661.4) | 300(661.4) | 300(661.4) |
| Power Supply Cable | | mm ² | CV 22X5C | CV 22X5C | CV 22X5C |
| Transmission Cable | | mm ² | CVV-SB 1.25X2C | CVV-SB 1.25X2C | CVV-SB 1.25X2C |
| Refrigerant | Refrigerant name | | R22 | R22 | R22 |
| | Control | | L.E.V | L.E.V | L.E.V |
| Power Supply | | Ø / V / Hz | 3, 220, 60 | 3, 220, 60 | 3, 220, 60 |

Notes:

- Capacities are based on the following conditions:
 - Cooling * Indoor temp. 27°C[80.6°F]DB/ 19°C[66.2°F]WB
 - * Outdoor temp. 35°C[95°F]DB/ 24°C[75.2°F]WB
 - * Interconnecting Piping Length 7.5m
 - * Level Difference of Zero
 - Heating * Indoor temp. 20°C[68°F]DB/ 15°C[59°F]WB
 - * Outdoor temp. 7°C[44.6°F]DB/ 6°C[42.8°F]WB
 - * Interconnecting Piping Length 7.5m
 - * Level Difference of Zero

Conversion Formula

Kcal/h= kW x 860
 Btu/h = kW x 3412
 cfm = m³/min x 35.3

- Capacities are net capacities
- Due to our policy of innovation some specifications may be changed without notification
- L.E.V.:Linear Expansion Valve

2. Function

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1. Basic control

1.1 Normal operation

| Actuator | Cooling operation | Heating operation | Stop state |
|-------------------|-------------------|-------------------|----------------------------|
| Compressor | Fuzzy control | Fuzzy control | stop |
| Fan | Fuzzy control | Fuzzy control | stop |
| Main LEV | Full open | Fuzzy control | After 15min, min. pulse |
| 4 way valve | Off | On | After 15min, Off |
| Subcooling LEV | Fuzzy control | min. | After 15min, min. pulse |

1.2 Compressor control

Fuzzy control : Maintain evaporating temperature(Te) on constant state on cooling mode and condensing temperature(Tc) on constant stage on heating mode by Fuzzy control to ensure the stable system performance.

1.3 Main and sub unit's LEV control

(1) Main LEV's fuzzy control

Main LEV operates with fuzzy control rules to keep the evaporator outlet super Heat(Superheat) stable state during heating mode

Superheat = Tsuction - Tevaporation

Tsuction : temperature at suction pipe sensor(°C)

Tevaporation : evaporation temperature equivalent to low pressure(°C)

(2) Sub LEV's fuzzy control

Sub LEV operates with the same rules of main LEV, but the operating range is Limited by main LEV's current opening rate

- Limited conditions : liquid back control, discharge temperature control etc.

1.4 subcooling LEV control

Subcooling LEV works with fuzzy rules to maintain the subcooling degree at the outlet of subcooler during cooling mode

Subcooling degree = $T_{\text{condensation}} - T_{\text{liquid}}$

T_{liquid} : temperature at outlet of subcooler(°C)

$T_{\text{condensation}}$: condensation temperature equivalent to high pressure(°C)

1.5 Fan control

Main unit's fan motor operates with inverter drive by fuzzy control and sub units' fan motors are all step motors.

| Fan Step | Sub unit | | Main unit |
|----------|----------|-----------|---|
| | Left fan | Right fan | Fan frequency |
| 0 | Stop | Stop | <5 Hz |
| 1 | Low | Stop | $5\text{ Hz} \leq \text{Frq} < 10\text{ Hz}$ |
| 2 | High | Stop | $10\text{ Hz} \leq \text{Frq} < 20\text{ Hz}$ |
| 3 | Low | Low | $20\text{ Hz} \leq \text{Frq} < 30\text{ Hz}$ |
| 4 | High | Low | $30\text{ Hz} \leq \text{Frq} < 40\text{ Hz}$ |
| 5 | High | High | $\text{Frq} \geq 40\text{ Hz}$ |

1. Basic control

2.1 Oil return control

2.1.1 Oil return control on cooling mode

| Component | Starting | Running | Ending |
|------------------------|-----------|-----------------------|-----------------------|
| Inv Compressor | 30 Hz | 60 Hz | 30 Hz |
| Sub unit 's compressor | All off | On | Off |
| Fan | 0Hz | High pressure control | High pressure control |
| Main LEV | Full open | Full open | Base pulse |
| 4way valve | Off | Off | Off |
| Subcooling LEV | min. | min. | min. |
| Hot gas bypass valve | Off | Off | Off |

| Indoor unit | Starting | Running | Ending |
|------------------------|---------------------|-------------------------------|-------------------------|
| Fan | Keep state | Keep state | Keep state |
| Thermo on unit LEV | Oil return pulse | Oil return operation pulse | Return to base pulse |
| Thermo off unit LEV | Close pulse | Oil return operation pulse | Close pulse |

- Oil return operation time : 3 min for running step
- Oil return operation skip condition : if liquid injection begins, Oil return operation goes to ending operation

2.1.2 Oil return control on heating mode

| Component | Starting | Running | Ending |
|--------------------------|-----------|--------------------------|--------------------------|
| Inv Compressor | 30 Hz | 60 Hz | 30 Hz |
| Sub unit's compressor | All off | On | Off |
| Fan | 0Hz | High pressure control | High pressure control |
| Main LEV | Full open | Full open | Base pulse |
| 4way valve | On → off | Off | On |
| Subcooling LEV | min. | min. | min. |
| Hot gas bypass valve | On | On | On |

| Indoor unit | Starting | Running | Ending |
|------------------------|---------------------|-------------------------------|-------------------------|
| Fan | Off | Off | Off |
| Thermo on unit LEV | Oil return pulse | Oil return operation pulse | Return to base pulse |
| Thermo off unit LEV | Heating close pulse | Oil return operation pulse | Heating close pulse |

- Oil return operation time : 3 min for running step
- Oil return operation skip condition : if liquid injection begins, Oil return operation goes to ending operation

2.1.3 Compressor stage during oil return control

■ Compressor stage at normal oil return state

2 unit combination : 60Hz + stage 2

3 unit combination : 60Hz + stage 3

4 unit combination : 60Hz + stage 4

■ High pressure limit

| Pressure range | Compressor stage |
|---------------------|-------------------|
| 2441 kPa ~ 2657 kPa | Emergency Control |
| < 2441 kPa | Normal oil return |

■ Low pressure limit

| Pressure range | Compressor stage |
|----------------|-------------------|
| > 101 kPa | Normal oil return |
| 36kPa ~ 52kPa | Emergency Control |

* Low pressure limit under -10°C = normal limit pressure – 26kPa

2.1.3 Compressor stage during oil return control

Compressor stage at normal oil return state

| Component | Starting | Running | Ending |
|------------------------|-----------|-----------------------|-----------------------|
| Inv Compressor | 30 Hz | 60 Hz | 30 Hz |
| Sub unit 's compressor | All off | On | Off |
| Fan | 0Hz | High pressure control | High pressure control |
| Main LEV | Full open | Full open | Base pulse |
| 4way valve | On → off | Off | On |
| Subcooling LEV | min. | min. | min. |
| Hot gas bypass valve | On | On | On |

| Indoor unit | Starting | Running | Ending |
|------------------------|---------------------|-------------------------------|-------------------------|
| Fan | Off | Off | Off |
| Thermo on unit LEV | Oil return pulse | Oil return operation pulse | Return to base pulse |
| Thermo off unit LEV | Heating close pulse | Oil return operation pulse | Heating close pulse |

■ Ending condition

- 1) All Heat exchanger pipe temperature are above 15°C
- 2) Defrost running time is over 20 min.
- 3) liquid injection begins

2.3 Oil equalizing control

2.3.1 Oil equalizing control on cooling mode

| Component | Starting | Running | Ending |
|---------------------------|--------------------------|--------------------------|--------------------------|
| Inv Compressor | Equalizing control | Equalizing control | Equalizing control |
| Sub unit 's compressor | Equalizing control | Equalizing control | Equalizing control |
| Fan | High pressure control | High pressure control | High pressure control |
| Main LEV | Full open | Full open | Full open |
| 4 way valve | Off | Off | Off |
| Subcooling LEV | Subcooling control | Subcooling control | Subcooling control |
| Hot gas bypass valve | Off | Off | Off |

| Indoor unit | Starting | Running | Ending |
|------------------------|------------|------------|------------|
| Fan | Normal | Normal | Normal |
| Thermo on unit LEV | Normal | Normal | Normal |
| Thermo off unit LEV | min. pulse | min. pulse | min. pulse |

■ Ending condition

- 1) 4min after control begins

2.3 Oil equalizing control

2.3.2 Oil equalizing control on heating mode

| Component | Starting | Running | Ending |
|-----------------------|----------------------|----------------------|----------------------|
| Inv Compressor | Equalizing control | Equalizing control | Equalizing control |
| Sub unit's compressor | Equalizing control | Equalizing control | Equalizing control |
| Fan | Low pressure control | Low pressure control | Low pressure control |
| Main LEV | SH control | SH control | SH control |
| 4 way valve | On | On | On |
| Subcooling LEV | min. pulse | min. pulse | min. pulse |
| Hot gas bypass valve | Off | Off | Off |

| Indoor unit | Starting | Running | Ending |
|---------------------|------------|------------|------------|
| Fan | Normal | Normal | Normal |
| Thermo on unit LEV | Normal | Normal | Normal |
| Thermo off unit LEV | min. pulse | min. pulse | min. pulse |

■ Ending condition

- 1) 4min after control begins

2.3.3 Equalizing control of compressors

- Equalizing control about sub unit which no compressor operates
 - No equalizing control works
- Equalizing control about sub unit which one compressor operates
 - 1) Current compressor works for 2 min after oil equalizing control begins
 - 2) Current compressor stops after 2 min.
 - 3) The other compressor work after the one compressor stops for 2 min.
 - 4) The compressor working is changed after ending of oil equalizing control.
- Equalizing control about unit which two compressor operates
 - 1) One compressor stops at beginning of oil equalizing control according to compressor stage table (stage 1 down)
 - 2) Sub unit works with only one compressor for 2 min.
 - 3) Current operating compressor stops after 2 min.
 - 4) The other compressor runs for 2 min.
 - 5) After 2 min, two compressors start to work after ending operation.(stage up)
- Equalizing control about inverter compressor
 - 1) Inverter compressor keep 30Hz operation during constant compressor operation.
 - 2) Frequency increases 80Hz after 1min.
 - 3) Inverter compressor decrease frequency to 40Hz after ending operation
- Equalizing control change condition
 - Any Indoor unit's operation mode is changed to thermo off state.
 - After equalizing control is changed, alternate equalizing control begins.
- Alternate equalizing control: it controls each compressor to turn on and turn off one by one for 2 min per 1 compressor

2.4 Stopping operation

2.4.1 Stopping operation on cooling mode

| Component | Operation | Note |
|-----------------------|-----------|------------------------------|
| Inv Compressor | 0Hz | - |
| Sub unit's compressor | Off | - |
| Fan | 0Hz | - |
| Main LEV | Full open | After 15 min from stop, min. |
| 4 way valve | Off | Off |
| Subcooling LEV | Full open | After 15 min from stop, min. |
| Hot gas bypass | On | After 15 min from stop, Off |

2.4.2 Stopping operation on heating mode

| Component | Operation | Note |
|-----------------------|-----------|------------------------------|
| Inv Compressor | 0Hz | - |
| Sub unit's compressor | Off | - |
| Fan | 0Hz | - |
| Main LEV | Full open | After 15 min from stop, min. |
| 4 way valve | On | After 15 min from stop, off |
| Subcooling LEV | Full open | After 15 min from stop, min. |
| Hot gas bypass | On | After 15 min from stop, Off |

2.4.3 Stopping operation of sub units when only main unit operates

| Component | Operation |
|-----------------------|--|
| Sub unit's compressor | Off |
| Fan | Depends on main unit fan frequency |
| Main LEV | Full open(cooling) SH control(heating) |
| 4way valve | Same state to main unit |
| Hot gas bypass | Normally Off |
| Subcooling LEV | Subcooling control(cooling) min. pulse(heating) |

3. Protection control

3.1 Pressure protection control

3.1.1 Pressure control on cooling mode

■ High pressure control

| Pressure range | Compressor | Fan | Hot gas bypass |
|--|----------------------|-----------------------|----------------|
| $P_c > 2657 \text{ kPa}$ | System stop | | |
| $2441 \text{ kPa} < P_c \leq 2657 \text{ kPa}$ | 5 Hz down/sec | 10 Hz up/sec | – |
| $2284 \text{ kPa} < P_c \leq 2422 \text{ kPa}$ | No frequency up | High pressure control | – |
| $P_c \leq 2284 \text{ kPa}$ | Low pressure control | High pressure control | – |

■ Low pressure control (above -10°C)

| Pressure range | Compressor | Fan | Hot gas bypass |
|---|----------------------|-----------------------|----------------|
| $P_e > 101 \text{ kPa}$ | Low pressure control | High pressure control | – |
| $62 \text{ kPa} < P_e \leq 101 \text{ kPa}$ | Low pressure control | No frequency up | On |
| $49 \text{ kPa} < P_e \leq 62 \text{ kPa}$ | 5 Hz down/sec | 5 Hz down/sec | On |
| $P_e \leq 49 \text{ kPa}$ | System stop | | |

- Hot gas bypass off condition : if hot gas bypass valve is on, the valve turn off above 399 kPa

3.1.2 Pressure control on heating mode

■ High pressure control

| Pressure range | Compressor | Fan | Hot gas bypass |
|--|-----------------------|----------------------|----------------|
| $P_c > 2657 \text{ kPa}$ | System stop | | |
| $2441 \text{ kPa} < P_c \leq 2657 \text{ kPa}$ | 5 Hz down/sec | 5 Hz down/sec | - |
| $2108 \text{ kPa} < P_c \leq 2441 \text{ kPa}$ | High pressure control | No frequency up | - |
| $P_c \leq 2108 \text{ kPa}$ | High pressure control | Low pressure control | - |

■ Low pressure control (above -10°C)

| Pressure range | Compressor | Fan | Hot gas bypass |
|---|-----------------------|----------------------|----------------|
| $P_e > 101 \text{ kPa}$ | High pressure control | Low pressure control | - |
| $62 \text{ kPa} < P_e \leq 101 \text{ kPa}$ | No frequency up | Low pressure control | - |
| $49 \text{ kPa} < P_e \leq 62 \text{ kPa}$ | 5 Hz down/sec | 5 Hz up/sec | - |
| $P_e \leq 49 \text{ kPa}$ | System stop | | |

3.2 Discharge temperature control

■ Outdoor unit's control on cooling, heating mode

| Temperature range | Compressor | Liquid injection | Subcooling LEV |
|---|--|------------------|---|
| $T_{dis} > 115\text{ }^{\circ}\text{C}$ | System stop | | |
| $103 < T_{dis} \leq 115\text{ }^{\circ}\text{C}$ | If liquid injection is on, No frequency up, After 2min \rightarrow 5Hz/30sec | On | Max. limit 300 pulse |
| $98\text{ }^{\circ}\text{C} < T_{dis} \leq 103\text{ }^{\circ}\text{C}$ | If liquid injection is on, No frequency up, After 2min \rightarrow 5Hz/30sec | Keep state | If liquid is on, Max. limit 300 pulse |
| $T_{dis} \leq 98\text{ }^{\circ}\text{C}$ | Pressure control | Off | Max. limit 150 pulse |
| $T_{dis} > 95\text{ }^{\circ}\text{C}$ | Pressure control | Off | 10 pulse open /10sec |

■ Indoor unit's control on cooling, heating mode

| Temperature range | LEV |
|---|-------------------------|
| $T_{dis} > 115\text{ }^{\circ}\text{C}$ | System stop |
| $103 < T_{dis} \leq 115\text{ }^{\circ}\text{C}$ | Emergency SH control |
| $98\text{ }^{\circ}\text{C} < T_{dis} \leq 103\text{ }^{\circ}\text{C}$ | Keep current control |
| $T_{dis} \leq 98\text{ }^{\circ}\text{C}$ | SH control |

3.3 Inverter protection control

| item | control |
|-------------------------------|--------------------------------|
| AD-CT>245 | System stop |
| $230 \leq \text{AD-CT} < 245$ | Inv compressor 5Hz down/sec |
| AD-CT < 230 | Inv. Compressor normal control |
| DC Peak | System stop |
| High pressure switch | System stop |
| Low voltage | System stop |

3.4 Phase detection

- Main unit
 - Inverter PCB has phase fault detection circuit. If a phase is missed or phases are reverse, Led Lamp is on when power is on.
- Sub unit
 - Sub PCB has phase fault detection circuit. If a phase is missed or phases are reverse, phase fault error happen and led 6 lamp is on.
- Phase fault detection is enable only for 5 sec after power is on.

3.5 Pressure switch

- Sub unit
 - Sub PCB has pressure switch connecting compressor with power relay and PCB.
 - Pressure switch's state is on normally, so has small current of 220V AC.
Never touch the connecting terminal with hand or connect two wires directly.

4. Other control

4.1 Initial setup

- There are 4 initial setup steps before running.
- All DIP switch setting must be completed before initial setup.

1) Step 1: Communication check

- If all model code is displayed in 7 segment including all sub unit, communication between outdoor units is normal.
- Sub unit lights on led 5 shortly whenever it transfer information to main unit.
- If led 5 does not light on periodically, check communication wires or dip switch setting.

2) Step 3 : PCB error check

- After 40 sec, error check begins.

■ Main unit

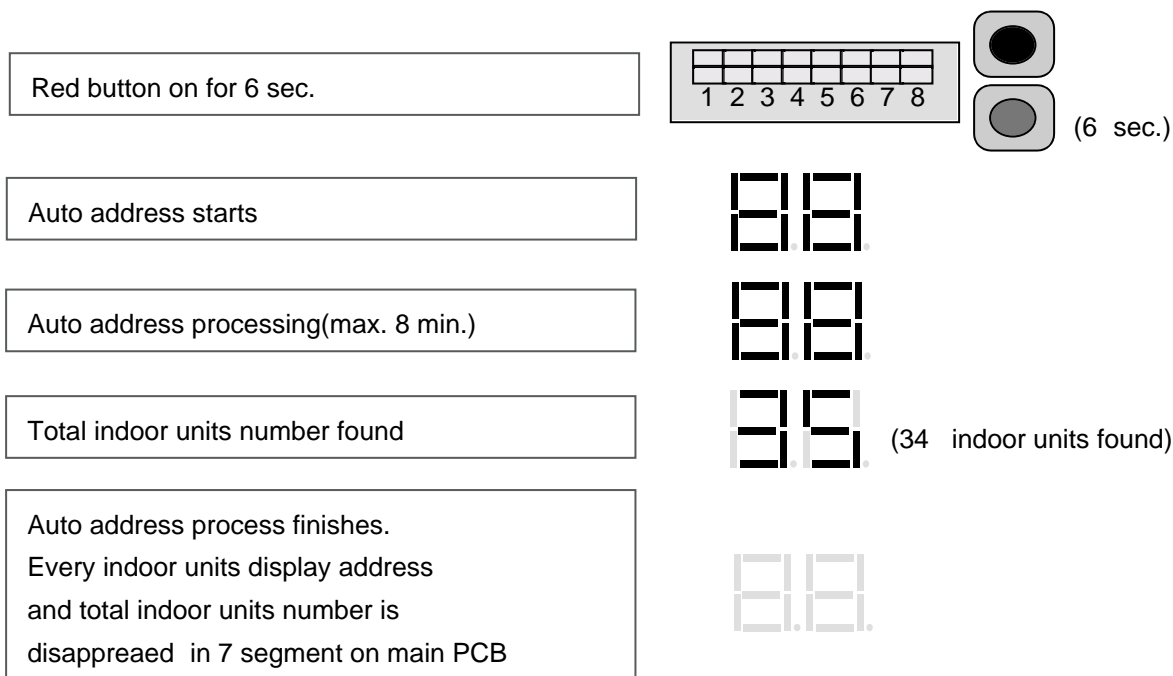
- All errors of units including sub units display in 7 segment.
- 2 leds representing inverter fan PCB and inverter compressor PCB communications twinkle if communications are normal.

■ Sub unit

- After 40 sec, led 1 is twinkle with period of 0.5sec.
- If electric phase is reverse or missed, led 6 is light on.
- Another leds except led 1 must turn off in initial setup steps.

3) Step 4: Auto addressing

- Auto addressing begin when red button in Main PCB is pressed for 6 sec.
 - During auto addressing, 7 segment on main PCB display "88"
 - After auto addressing, no number is displayed anymore in 7 segment except the display of number of the connected indoor unit found.
- and every indoor unit's wired remote display address of themselves.



(4) DC peak control

1. Criterion for DC peak : if the fault signal from IPM (Intelligent Power Module) is occurred continuously for 1.8ms, then it is judged that DC peak occurred.
2. After inverter compressor turned off, 3minutes later if there is no DC peak signal, then restart compressor.

(5) CT(current transformer) sensor fault error

Detection for CT sensor fault

Criterion for CT sensor fault(which is judged from operation current for each frequency)

| | CT value |
|-------------------------------|--------------------------|
| After Inverter Compressor Off | CT < 1.5A for 10 seconds |

(6) Over upper limit voltage and below lowest limit voltage

If the voltage of system input power exceed the upper limit(415V) of rating voltage(380 ~ 415V) by 15% over(478V or more) or is below the lowest limit(380V) of rating voltage by 20%(304V or less) then the compressor is turned off, and restart 3 minutes later.

(7) Controls for error occurrence

1. DC peak error

- Restart 3 minutes later.
- System down if the error occurs 3 or more times in an hour

2. CT sensor error

- Restart 3 minutes later.
- System down if the error occurs 3 or more times in an hour- Counter reset if the error

3. Sensor error

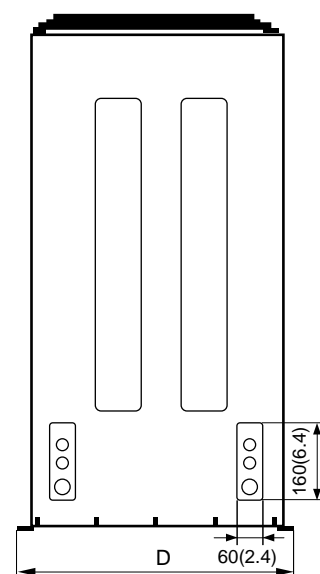
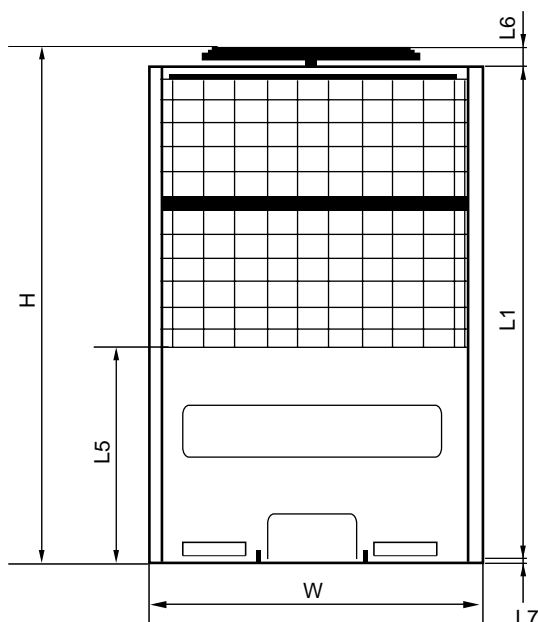
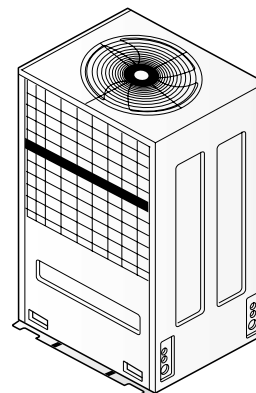
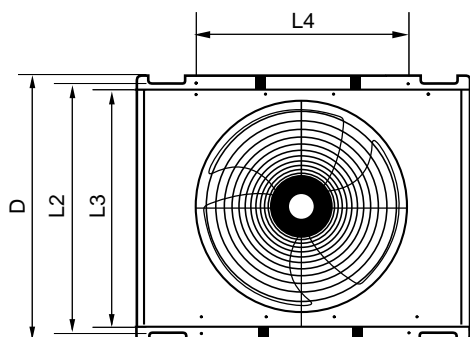
- During the error signal is on, the compressor can not be turned on

4. Transmission error

- If the transmission with all of indoor unit is ceased, then compressor is turned off
- If the transmission between inverter PC board and control PC board in outdoor unit, then all of the compressor is turned off.

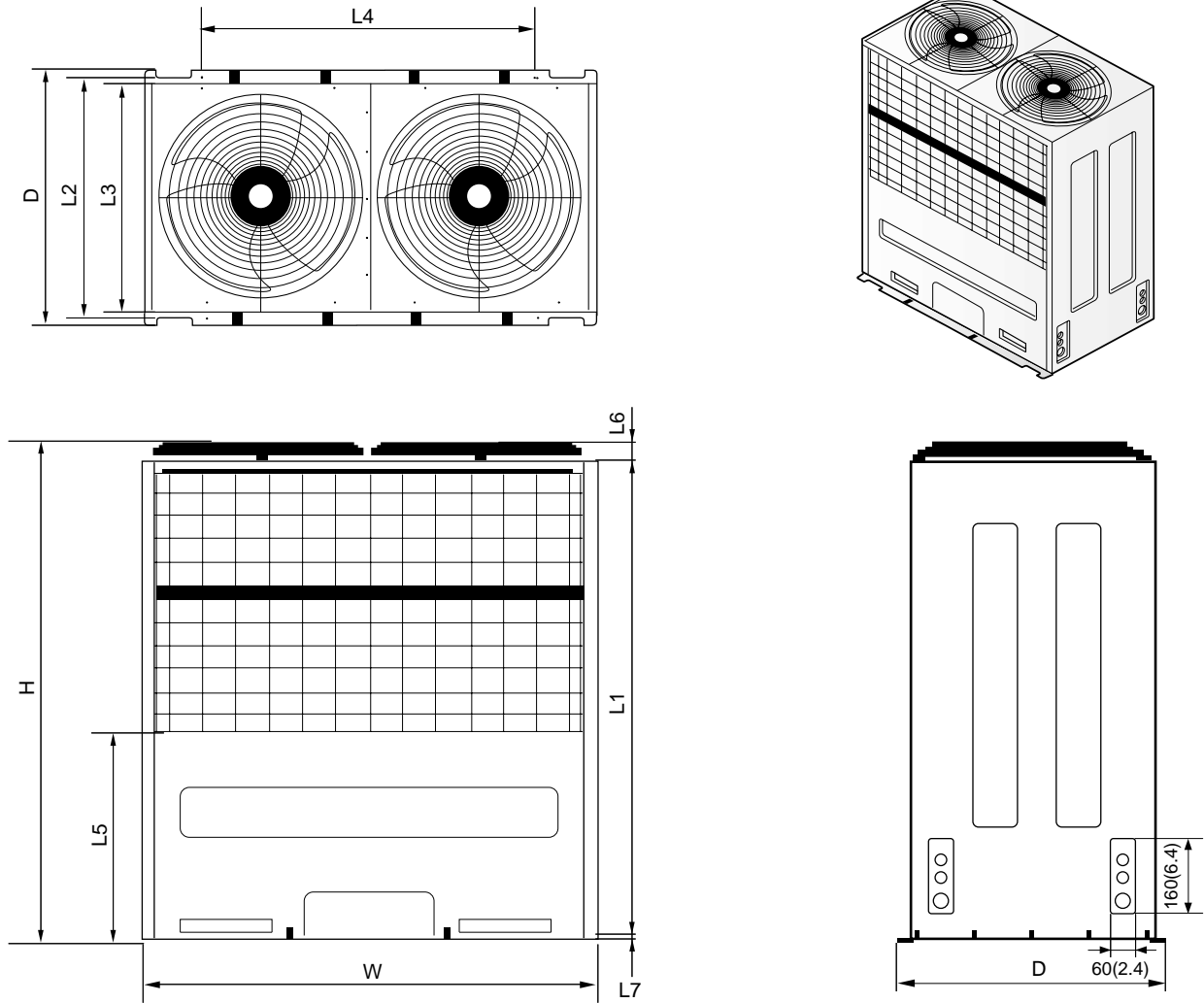
3. Dimensions

3.1 1 Outdoor Unit(Half Size)



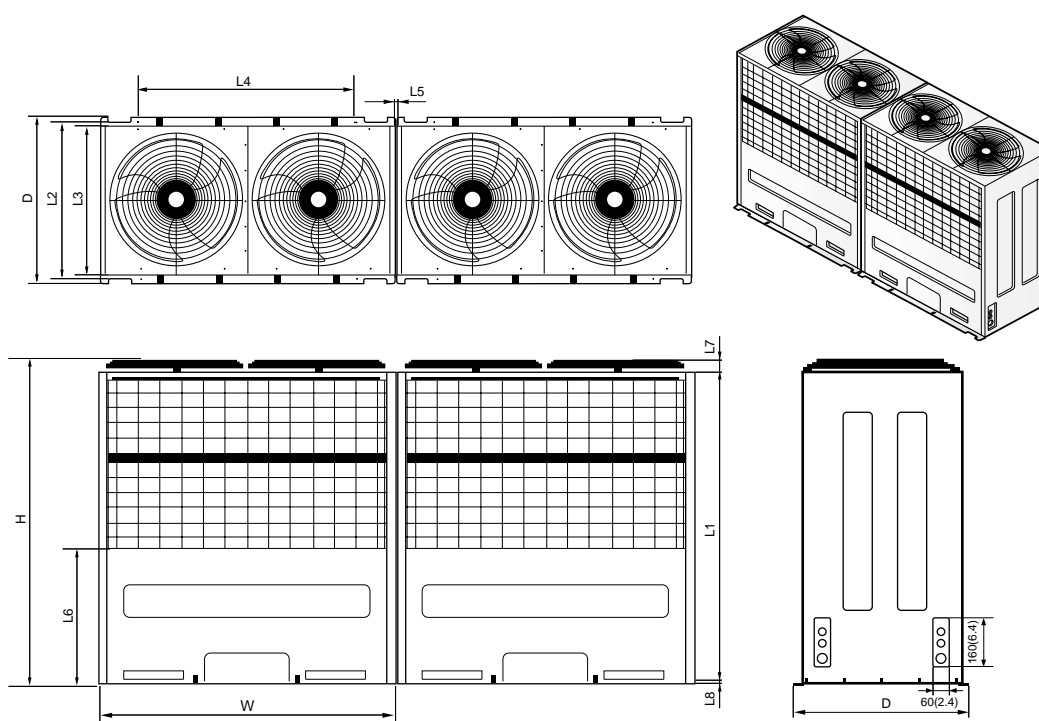
| | | |
|----|----------|------------|
| W | mm(inch) | 806(31.5) |
| H | mm(inch) | 1555(61.2) |
| D | mm(inch) | 730(28.7) |
| L1 | mm(inch) | 1479(58.3) |
| L2 | mm(inch) | 700(27.6) |
| L3 | mm(inch) | 690(27.2) |
| L4 | mm(inch) | 500(19.7) |
| L5 | mm(inch) | 705(27.8) |
| L6 | mm(inch) | 48(1.9) |
| L7 | mm(inch) | 28(1.1) |

3.2 1 Outdoor Unit



| | | |
|----|----------|------------|
| W | mm(inch) | 1280(50.4) |
| H | mm(inch) | 1555(61.2) |
| D | mm(inch) | 730(28.7) |
| L1 | mm(inch) | 1479(58.3) |
| L2 | mm(inch) | 700(27.6) |
| L3 | mm(inch) | 690(27.2) |
| L4 | mm(inch) | 900(35.4) |
| L5 | mm(inch) | 705(27.8) |
| L6 | mm(inch) | 48(1.9) |
| L7 | mm(inch) | 28(1.1) |

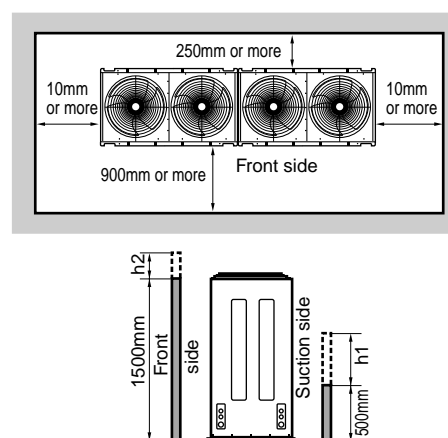
3.2 2 Outdoor Unit



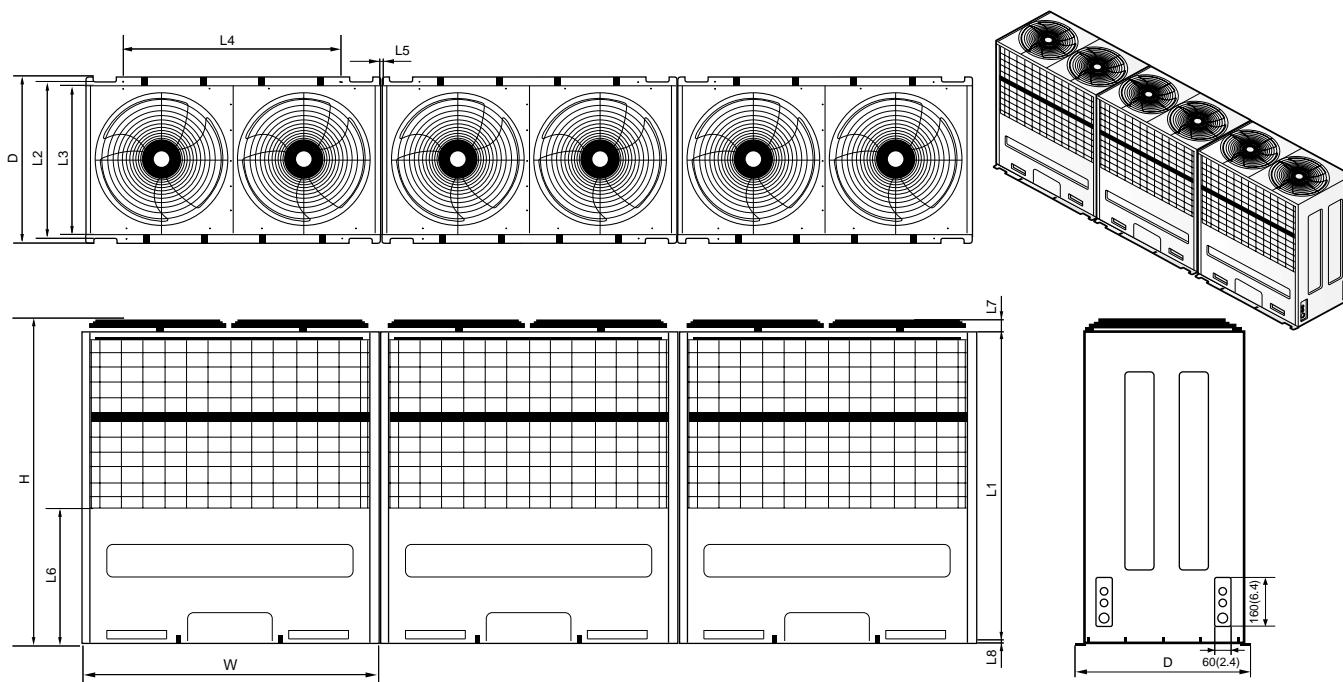
| | | |
|----|----------|------------|
| W | mm(inch) | 1280(50.4) |
| H | mm(inch) | 1555(61.2) |
| D | mm(inch) | 730(28.7) |
| L1 | mm(inch) | 1479(58.3) |
| L2 | mm(inch) | 700(27.6) |
| L3 | mm(inch) | 690(27.2) |
| L4 | mm(inch) | 900(35.4) |
| L5 | mm(inch) | 10(0.4) |
| L6 | mm(inch) | 705(27.8) |
| L7 | mm(inch) | 48(1.9) |
| L8 | mm(inch) | 28(1.1) |

Notes:

1. High of walls in case of pattern1:
Front side:1500mm, Suction side:500mm
2. If the above wall heights are exceeded then h1/2 and h2/2 should be added to the front and suction side service spaces respectively as shown in the following figure.
3. When installing the units, the most appropriate pattern should be selected from those shown.
In order to obtain the best fit in the space available always bear in mind the need to leave enough room for a person to pass between units and wall and for the air to circulate freely. Your layout should be taken account of the possibility of short circuits.
4. The Units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.



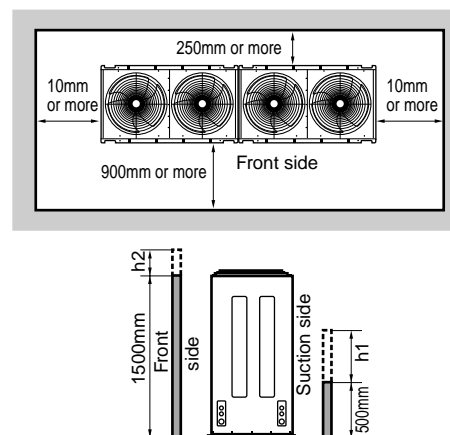
3.2 3 Outdoor Unit



| | | |
|----|----------|------------|
| W | mm(inch) | 1280(50.4) |
| H | mm(inch) | 1555(61.2) |
| D | mm(inch) | 730(28.7) |
| L1 | mm(inch) | 1479(58.3) |
| L2 | mm(inch) | 700(27.6) |
| L3 | mm(inch) | 690(27.2) |
| L4 | mm(inch) | 900(35.4) |
| L5 | mm(inch) | 10(0.4) |
| L6 | mm(inch) | 705(27.8) |
| L7 | mm(inch) | 48(1.9) |
| L8 | mm(inch) | 28(1.1) |

Notes:

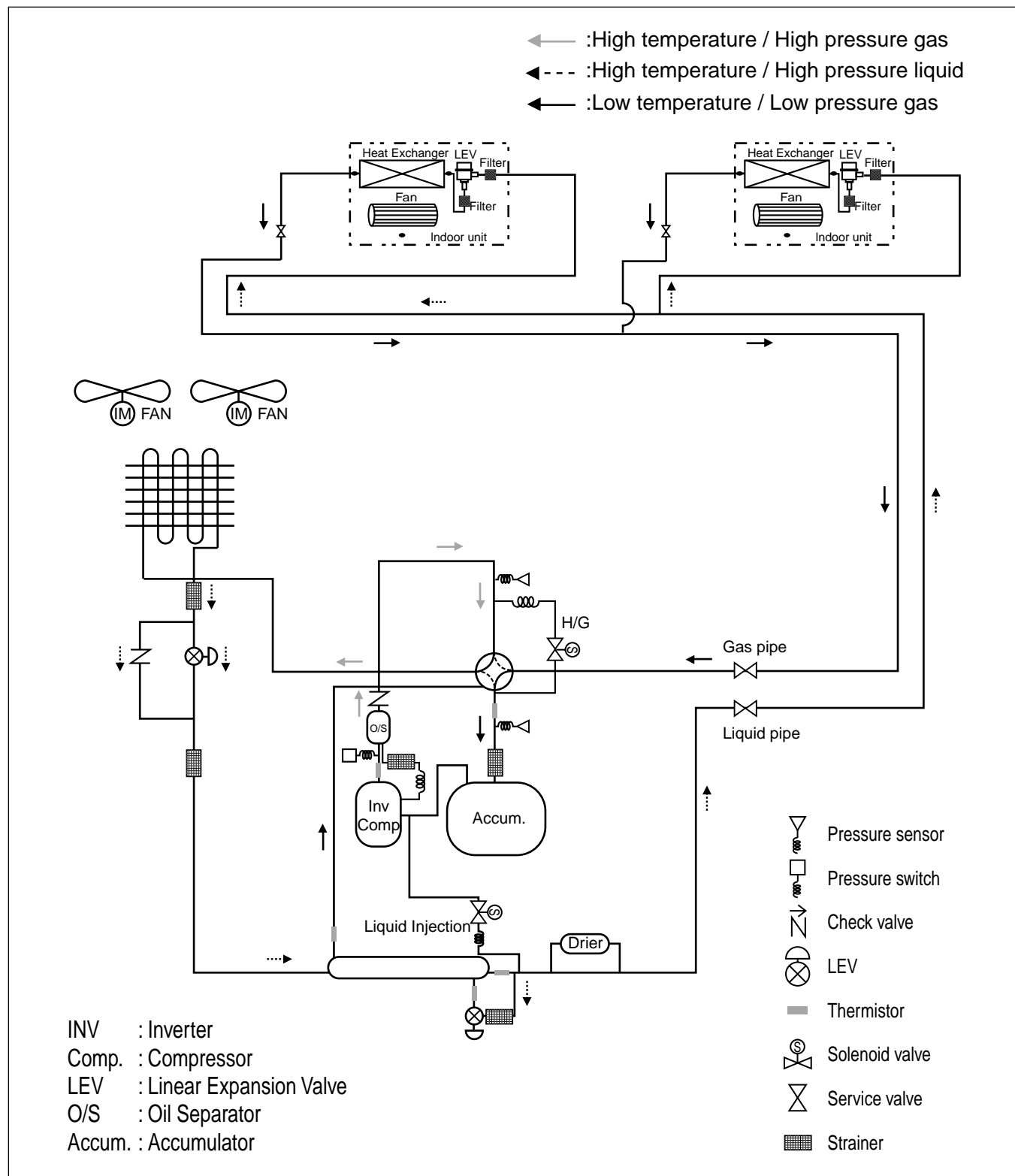
1. High of walls in case of pattern1:
Front side:1500mm, Suction side:500mm
2. If the above wall heights are exceeded then h1/2 and h2/2 should be added to the front and suction side service spaces respectively as shown in the following figure.
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4. The Units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.



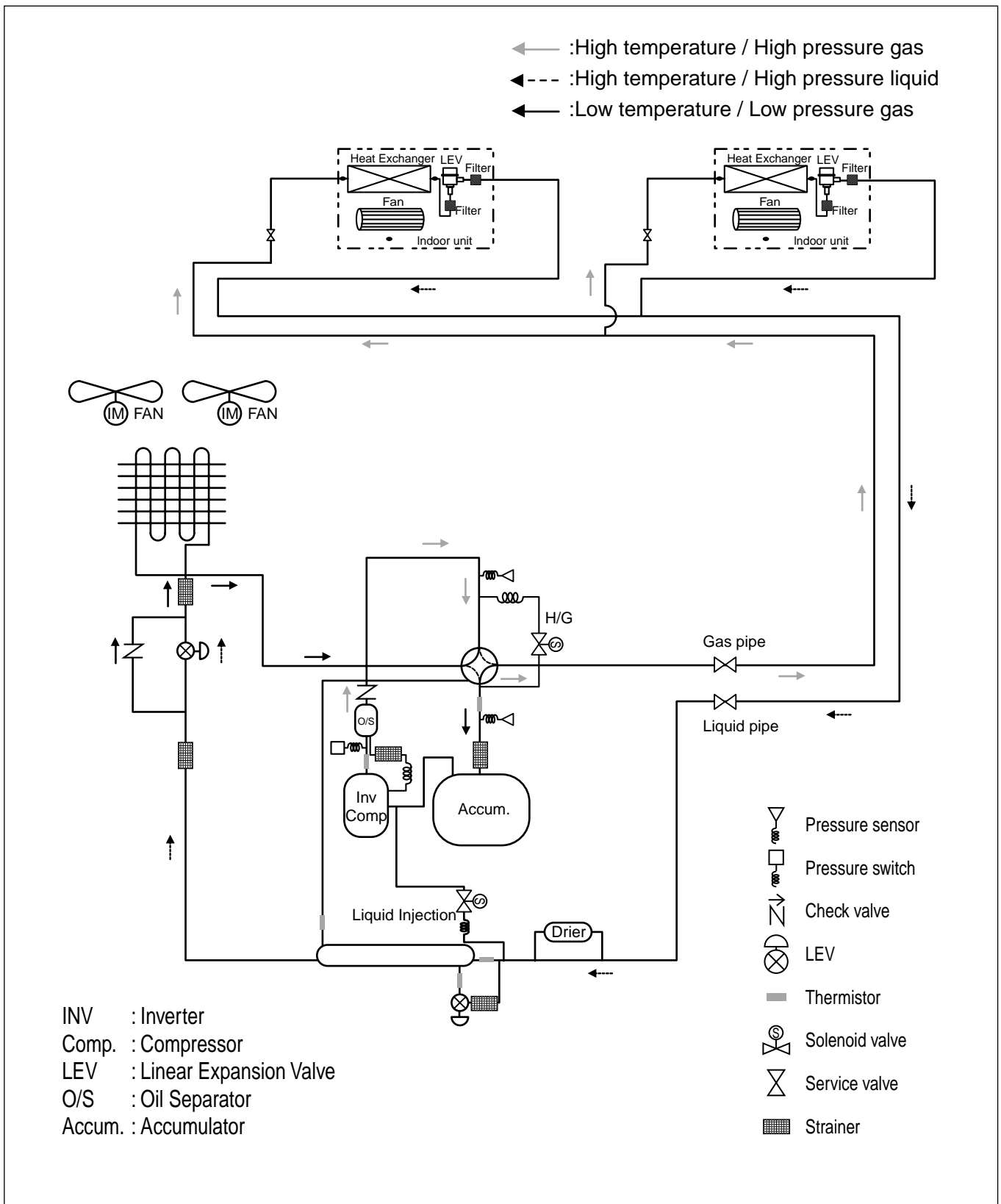
4. Piping Diagrams

4.1 Refrigerant Flow for Each Operation Mode

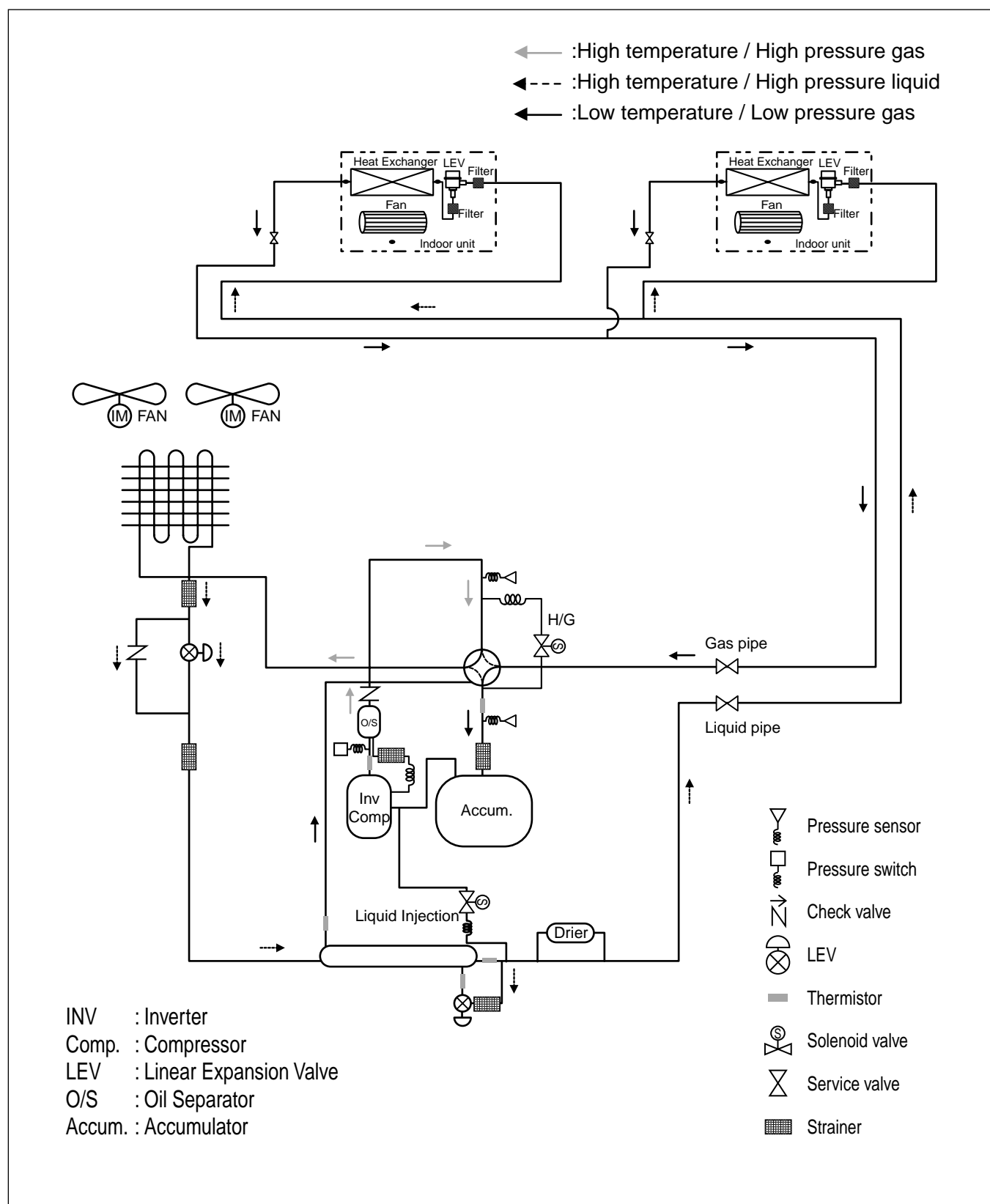
4.1.1 Cooling Operation



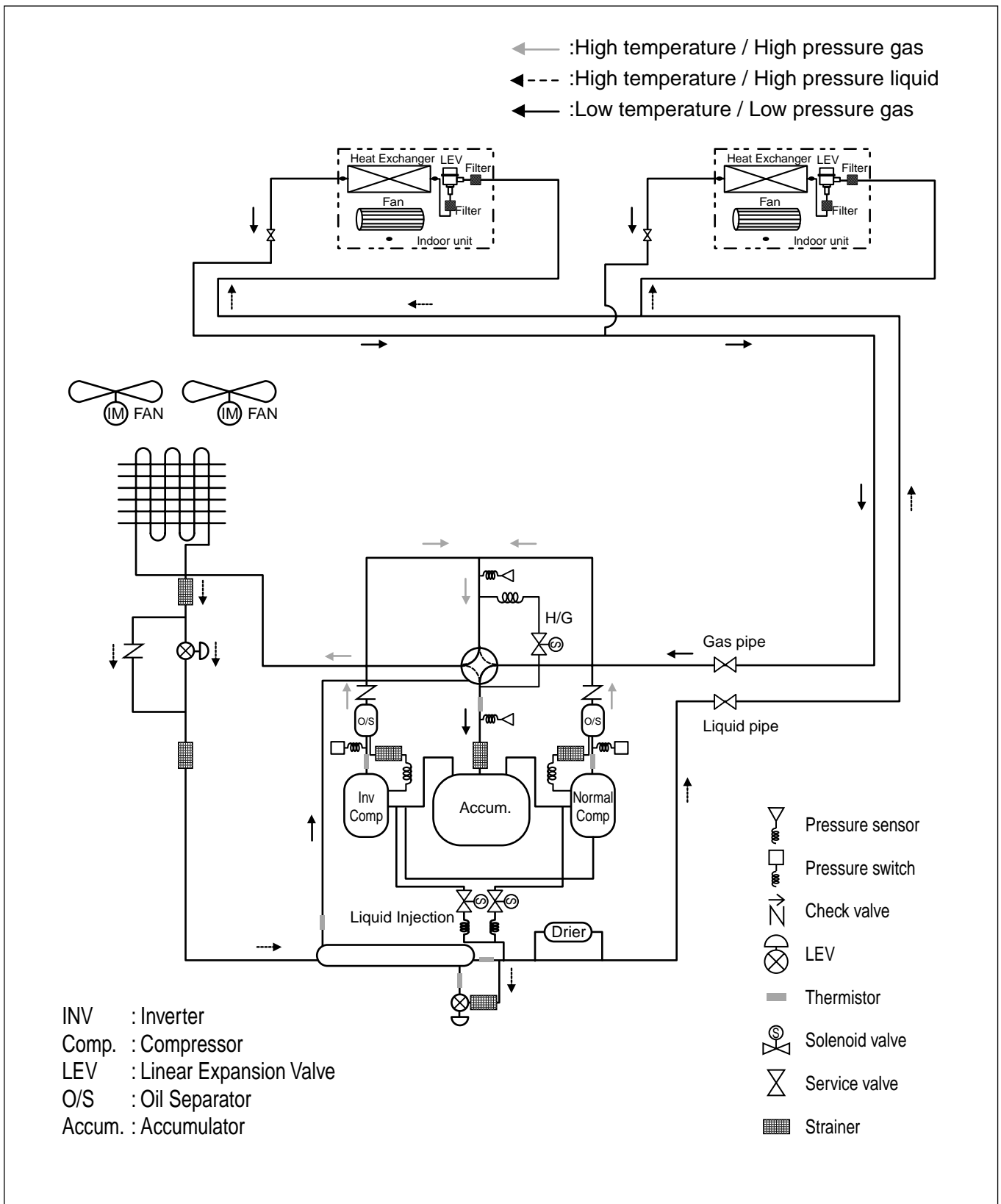
4.1.2 Heating Operation



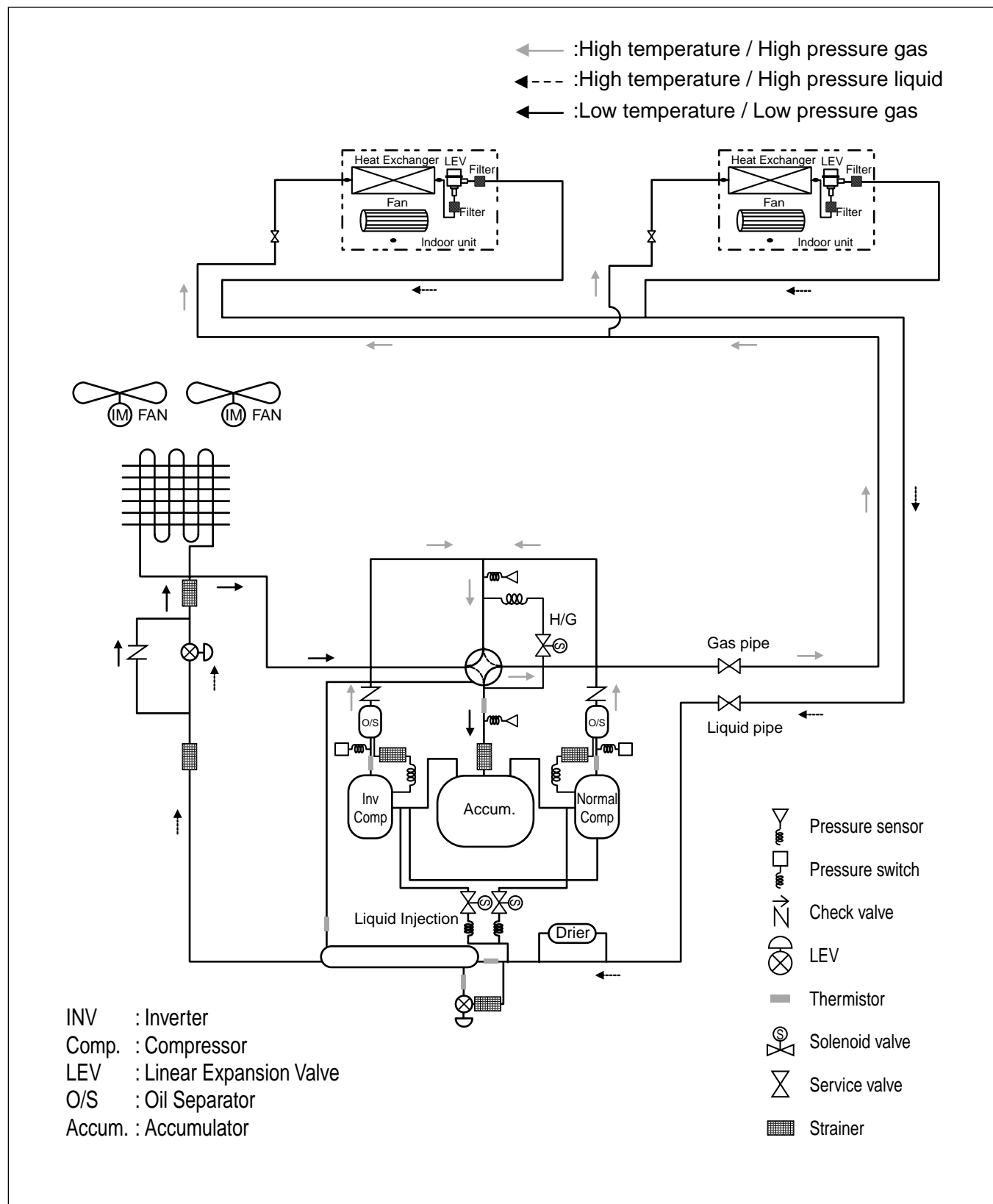
4.1.3 Oil Return/Defrost Operation



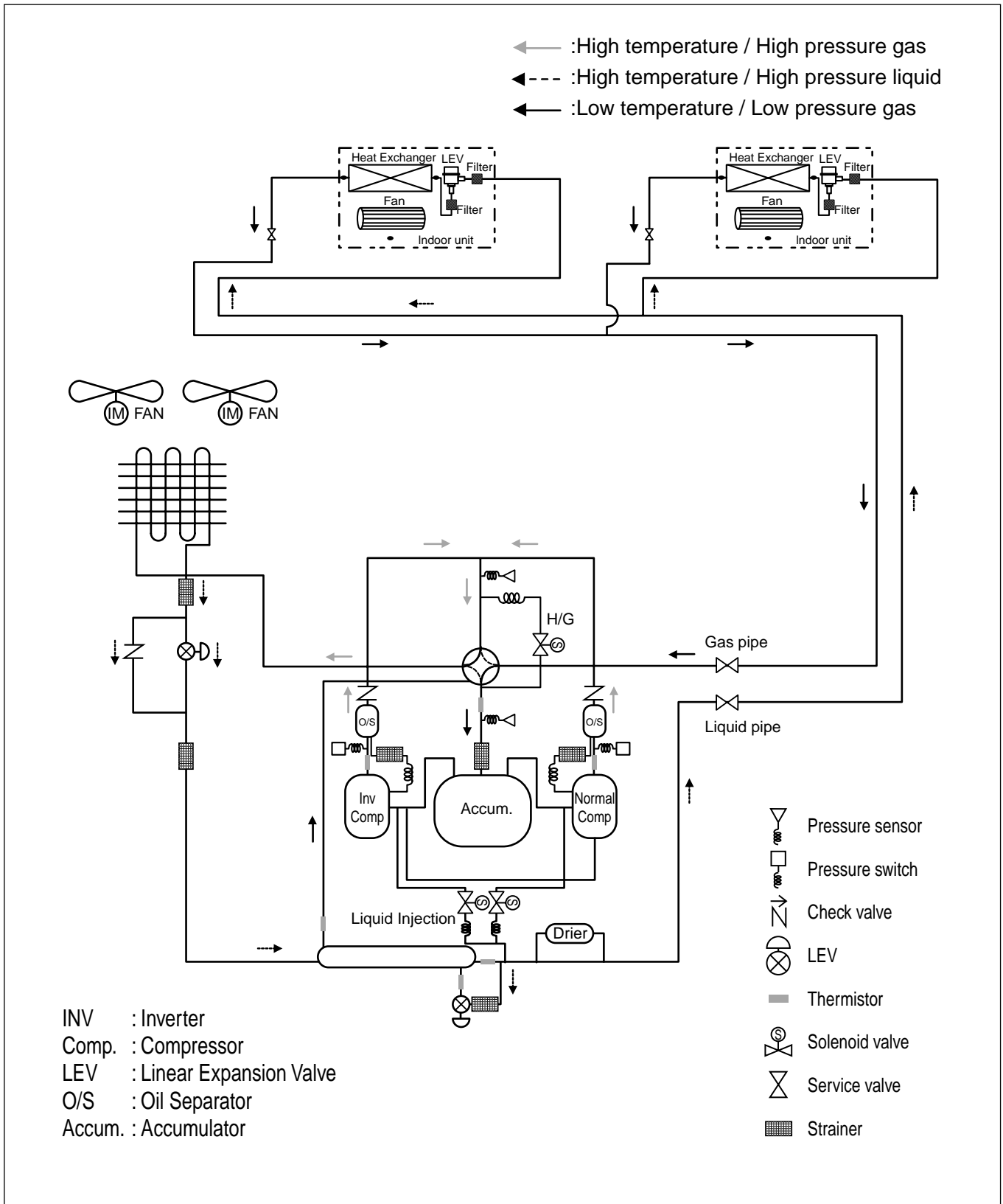
4.2.1 Cooling Operation



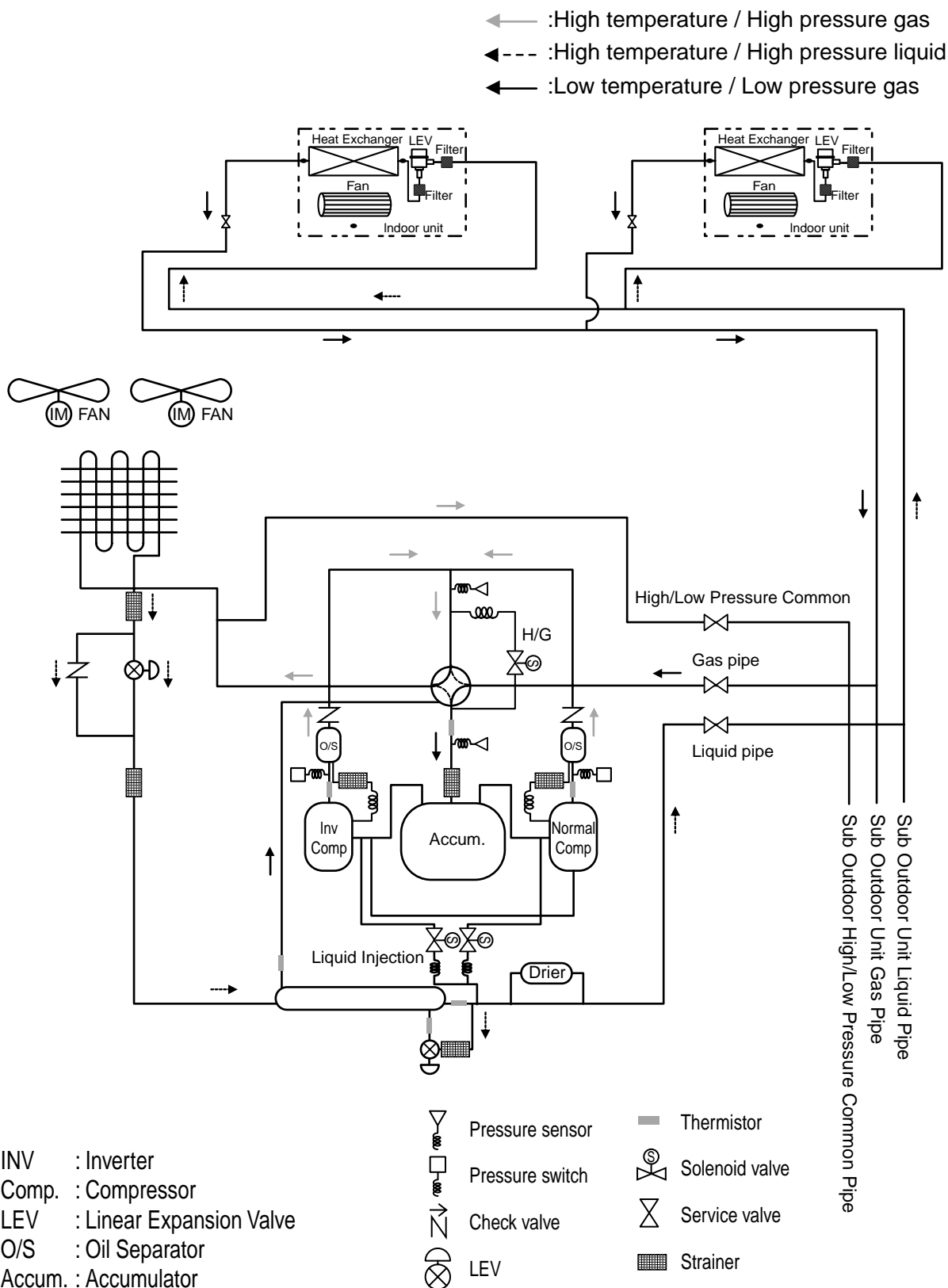
4.2.2 Heating Operation



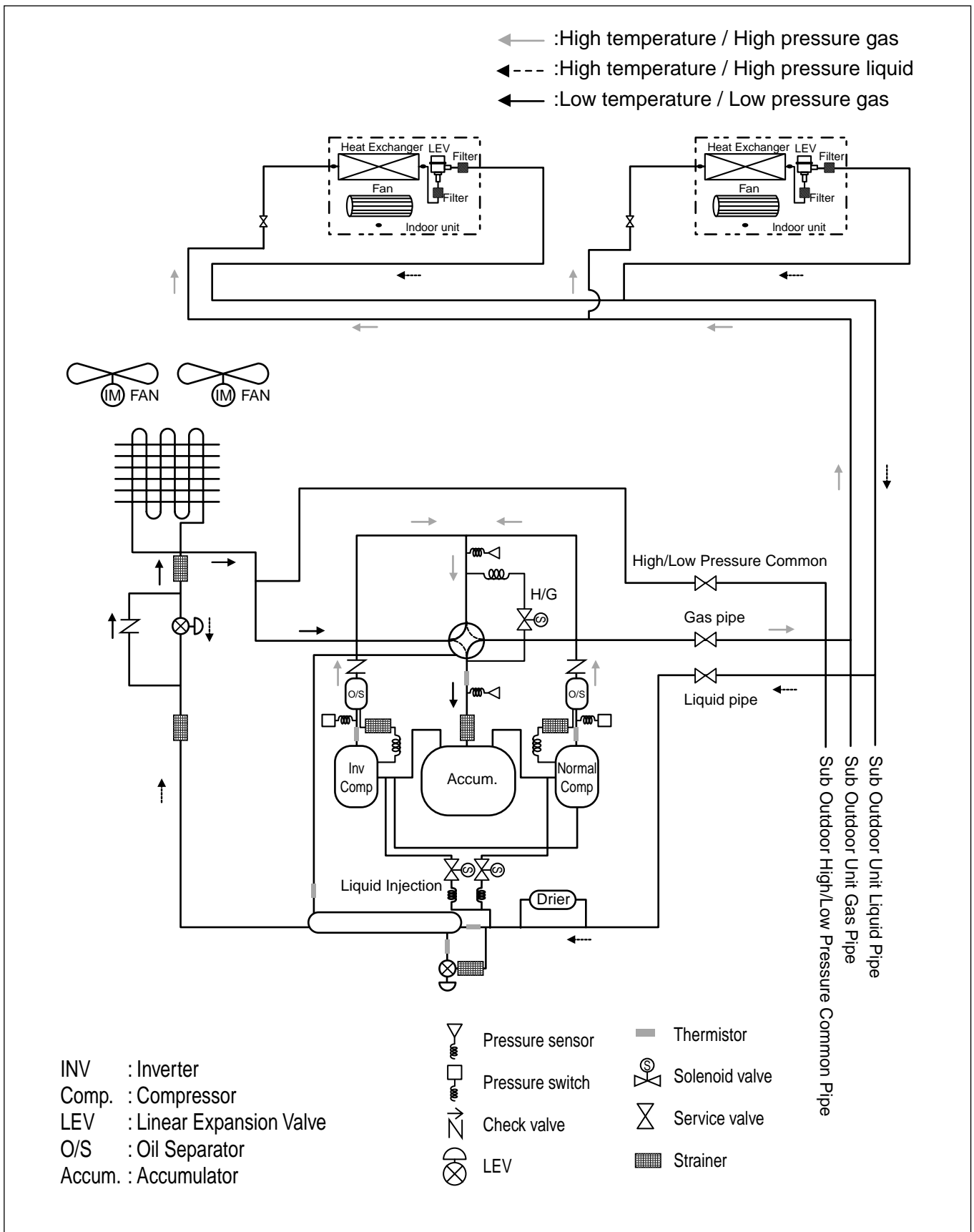
4.2.3 Oil Return/Defrost Operation



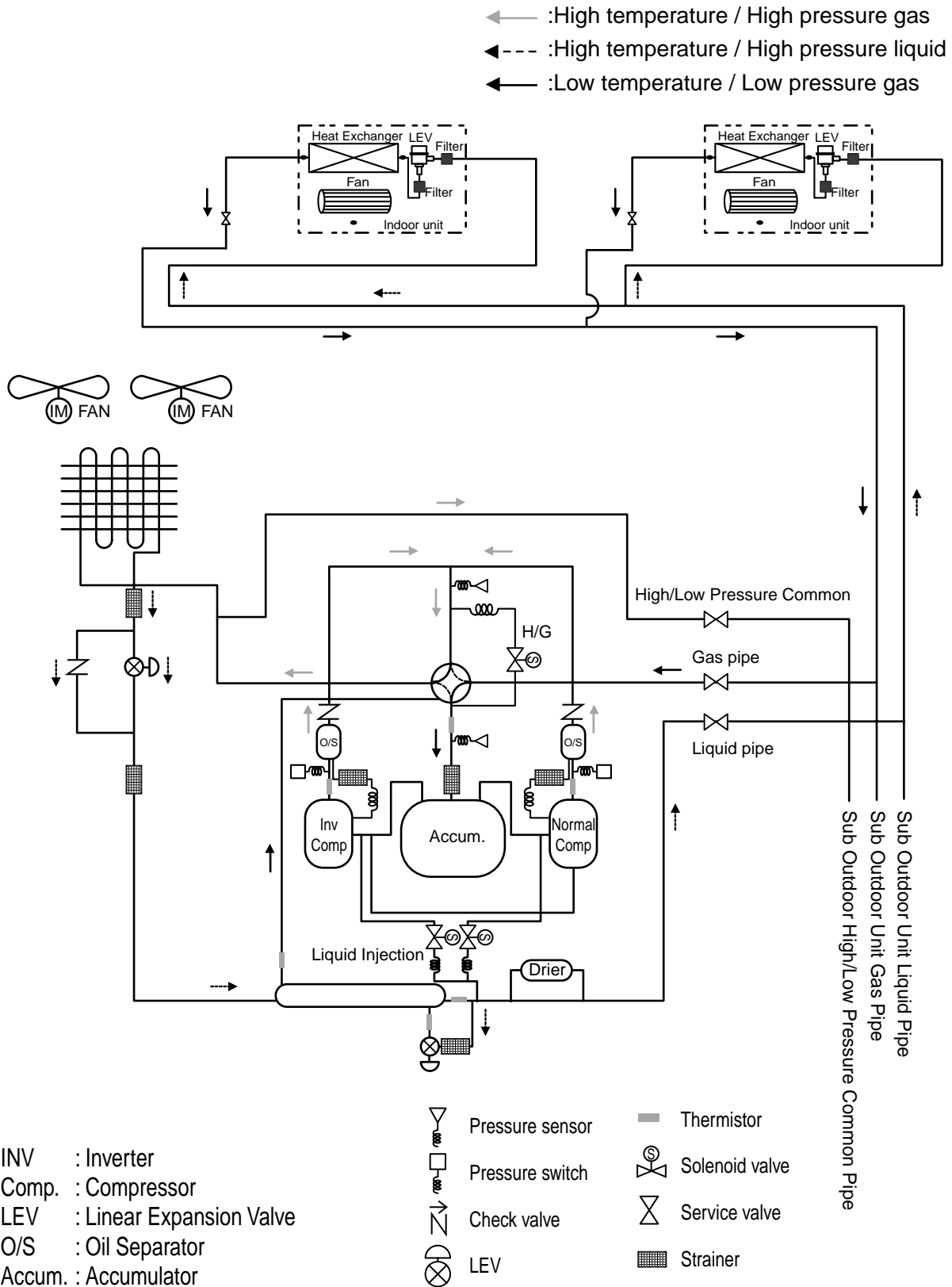
4.3.1 Cooling Operation(Series)



4.3.2 Heating Operation(Series)



4.3.3 Oil return/Defrost Operation(Series)



5.1 50Hz(380V) Main Outdoor Unit(5HP, 6HP, 8HP)

The diagram illustrates the internal wiring of the indoor unit, divided into two main sections: the Main Board and the Inverter Board.

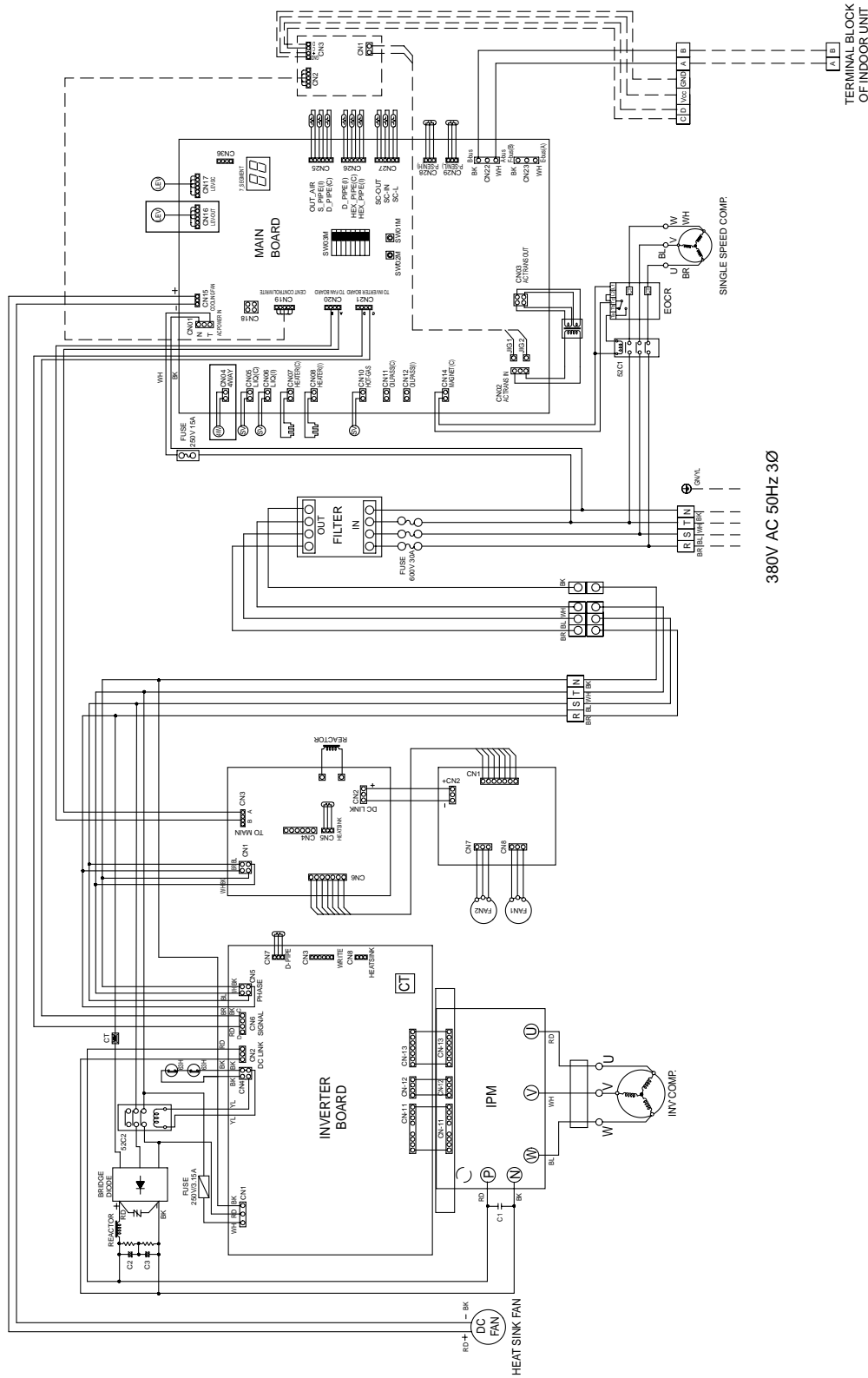
Main Board: This section includes a 380V AC 50Hz 3Ø input, a 600V 3Ø FUSE, a 250V 15A FUSE, and a 250V 15A FUSE. It features a MAIN BOARD with various components like a DC FAN, HEAT SINK, and INVERTER BOARD. The board is populated with numerous integrated circuits (ICs) and connectors, including CN1, CN2, CN3, CN4, CN5, CN6, CN7, CN8, CN9, CN10, CN11, CN12, CN13, CN14, CN15, CN16, CN17, CN18, CN19, CN20, CN21, CN22, CN23, CN24, CN25, CN26, CN27, CN28, CN29, CN30, CN31, CN32, CN33, CN34, CN35, CN36, CN37, CN38, CN39, CN40, CN41, CN42, CN43, CN44, CN45, CN46, CN47, CN48, CN49, CN50, CN51, CN52, CN53, CN54, CN55, CN56, CN57, CN58, CN59, CN60, CN61, CN62, CN63, CN64, CN65, CN66, CN67, CN68, CN69, CN70, CN71, CN72, CN73, CN74, CN75, CN76, CN77, CN78, CN79, CN80, CN81, CN82, CN83, CN84, CN85, CN86, CN87, CN88, CN89, CN90, CN91, CN92, CN93, CN94, CN95, CN96, CN97, CN98, CN99, CN100, CN101, CN102, CN103, CN104, CN105, CN106, CN107, CN108, CN109, CN110, CN111, CN112, CN113, CN114, CN115, CN116, CN117, CN118, CN119, CN120, CN121, CN122, CN123, CN124, CN125, CN126, CN127, CN128, CN129, CN130, CN131, CN132, CN133, CN134, CN135, CN136, CN137, CN138, CN139, CN140, CN141, CN142, CN143, CN144, CN145, 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OPTION

3854A20469F

5.2 50Hz(380V) Main Outdoor Unit(8HP, 10HP, 12HP, 14HP)

OUTDOOR WIRING DIAGRAM



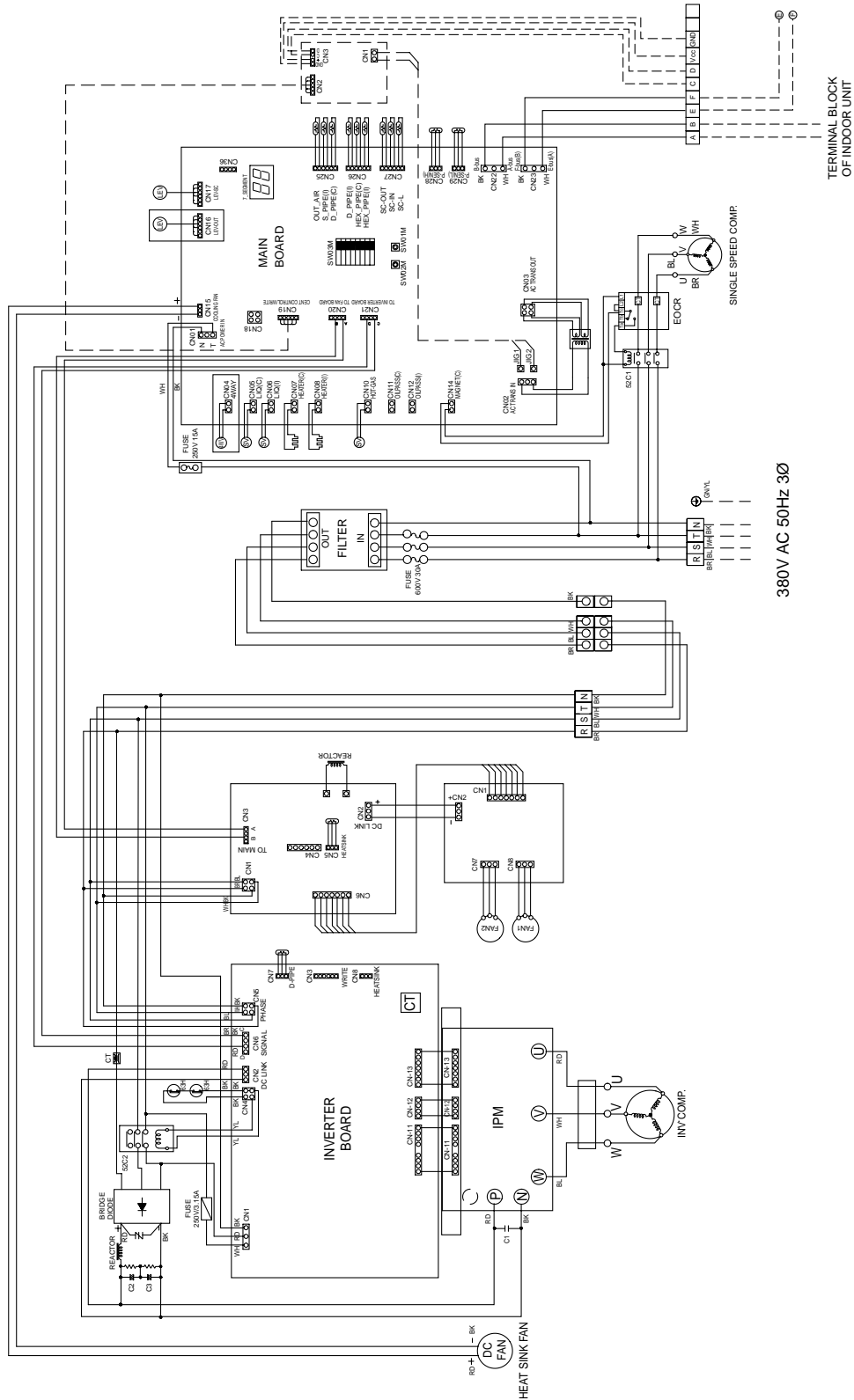
NOTE

| | |
|-----|------------|
| RV | 4WAY VALVE |
| 63H | H/P SW |

EXCEPT COOLING ONLY MODEL

5.3 50Hz(380V) Main Outdoor Unit(16~40HP)

OUTDOOR WIRING DIAGRAM



NOTE

| | |
|-----|------------|
| RV | 4WAY VALVE |
| 63H | HP SW |

EXCEPT COOLING ONLY MODEL

5.4 60Hz(380V) Main Outdoor Unit(5HP, 6HP, 8HP)

5.4 60Hz(380V) Main Outdoor Unit(5HP, 6HP, 8HP)

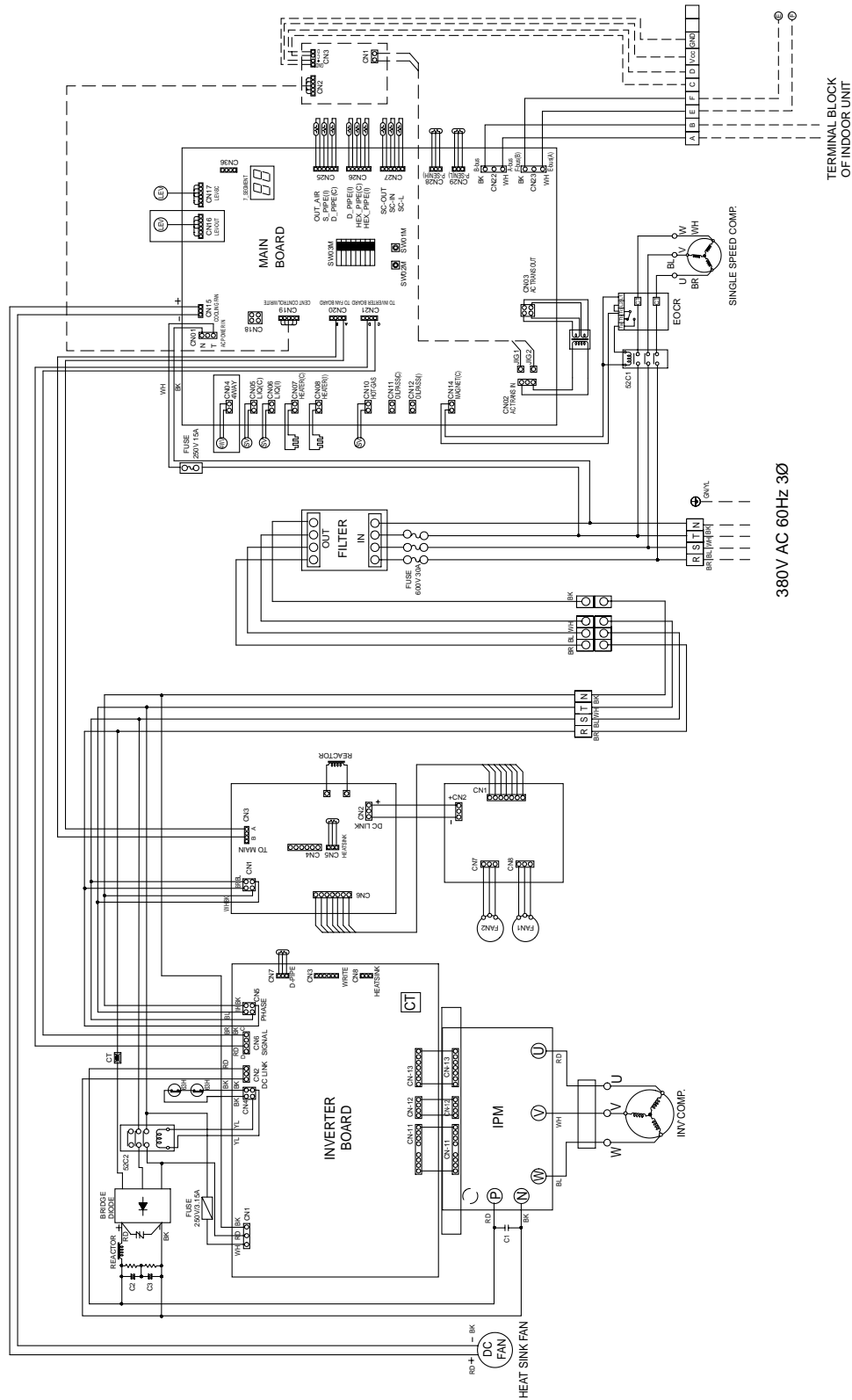


OUTDOOR WIRING DIAGRAM



5.6 60Hz(380V) Main Outdoor Unit(16~40HP)

OUTDOOR WIRING DIAGRAM



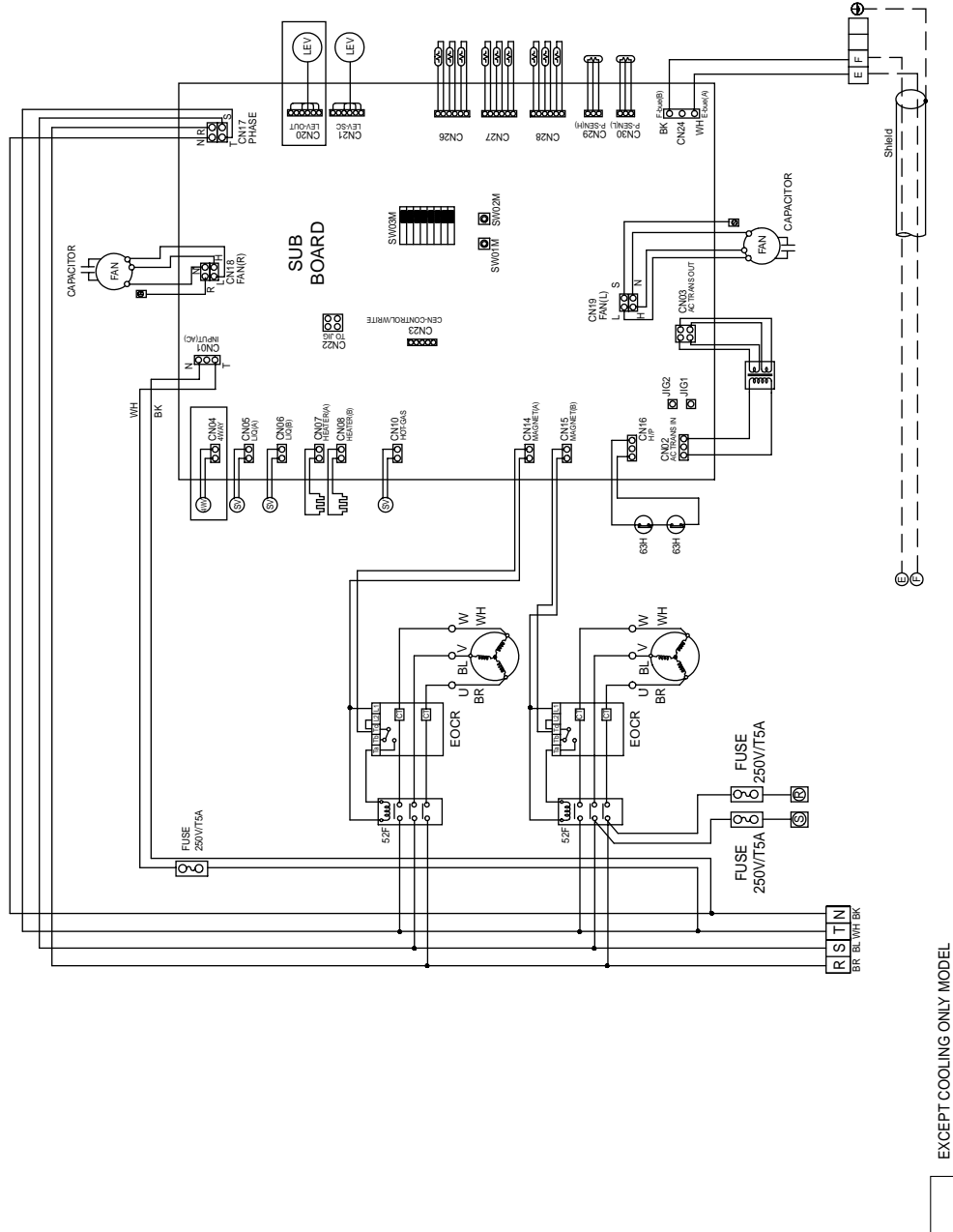
NOTE

| | |
|-----|------------|
| RV | 4WAY VALVE |
| 63H | HIP SW |

EXCEPT COOLING ONLY MODEL

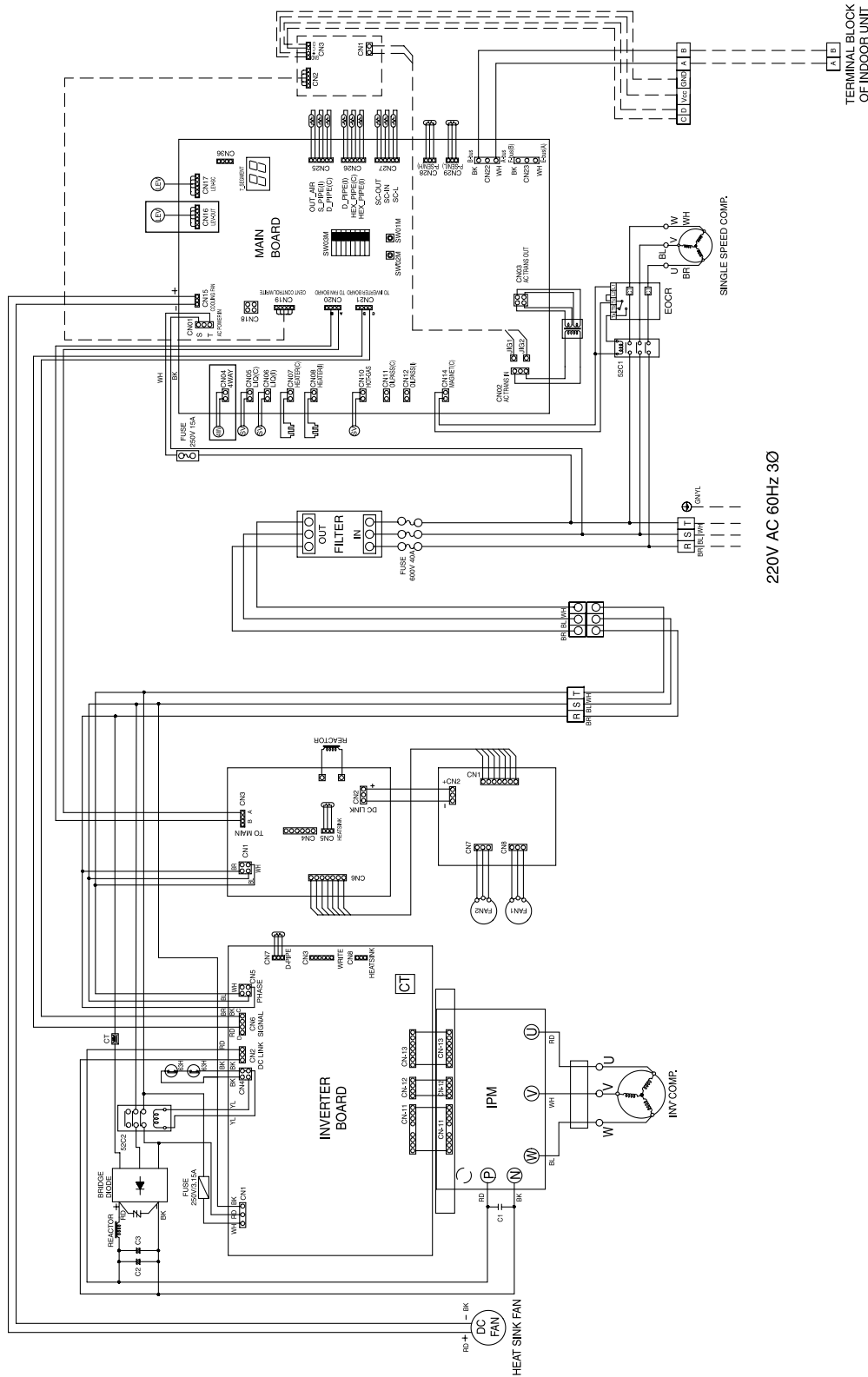
5.7 50, 60Hz Sub Outdoor Unit(16~40HP)

OUTDOOR WIRING DIAGRAM



5.8 60Hz(220V) Main Outdoor Unit(8HP, 10HP, 12HP)

OUTDOOR WIRING DIAGRAM



NOTE

| | |
|-----|------------|
| RV | 4WAY VALVE |
| 63H | H/P SAW |

EXCEPT COOLING ONLY MODEL

Inverter Board

| CONNECTOR No. | SPEC | COLOR | DESCRIPTION |
|---------------|---------|-------|---------------------------------|
| CN1 | POWER | YL | AC POWER |
| CN2 | DC-LINK | RD | DC LINK VOLTAGE DETECT |
| CN3 | WRITE | WH | ON BOARD WRITING |
| CN4 | H/P, M | GRAY | HIGH PRESSURE MAGNETIC SWITCH |
| CN5 | PHASE | NT | 3 PHASE DETECT |
| CN6 | SIGNAL | RD | TRANXMISSION WITH CONTROL BOARD |
| CN10, 11, 12 | IPM | WH | PWM SIGNAL |
| CN13 | IPM | WH | PWM CONTROL POWER |

Main Board

| CONNECTOR No. | SPEC | COLOR | DESCRIPTION |
|---------------|-------------------|-------|--|
| CN01 | AC POWER IN | NT | AC POWER |
| CN02 | AC TRANS IN | NT | AC POWER TO TRANS |
| CN03 | AC TRANS OUT | YL | AC POWER FROM TRANS |
| CN04 | 4WAY | BK | 4WAY REVERSING VALVE |
| CN05 | LIQ(I) | RD | INVERTER COMP LIQUID INJECTION VALVE |
| CN06 | LIQ(C) | GY | CONSTANT COMP LIQUID INJECTION VALVE |
| CN07 | HEATER(I) | YL | INVERTER COMP CRANK HEATER |
| CN08 | HEATER(C) | WH | CONSTANT COMP CRANK HEATER |
| CN10 | HOT-GAS | GR | HOT GAS BYPASS VALVE |
| CN11 | OILPASS(I) | BL | NOT USE |
| CN12 | OILPASS(C) | OR | NOT USE |
| CN14 | MAGNET(C) | BR | MAGNETIC SWITCH |
| CN15 | COOLING FAN | YL | HEATSINK FAN |
| CN16 | LEV-OUT | RD | LINEAR EXPANSION VALVE(MAIN) |
| CN17 | LEV-SC | BL | LINEAR EXPANSION VALVE(SUBCOOLING CIRCUIT) |
| CN18 | TO-JIG | NT | TRANSMISSION WITH JIG |
| CN19 | CEN-CONTROL/WRITE | BL | TRANSMISSION WITH CENTRAL CONTROLLER |
| CN20 | TO FAN BOARD | BL | TRANSMISSION WITH FAN BOARD |
| CN21 | TO INVERTER BOARD | RD | TRANSMISSION WITH INVERTER BOARD |
| CN22 | TO INDOOR UNIT | WH | TRANSMISSION WITH INDOOR UNIT |
| CN23 | TO SUB OUTDOOR | BK | TRANSMISSION WITH SUB OUTDOOR UNIT |
| CN25 | OUT-AIR | BK | OUTDOOR AIR THERMISTOR |
| | S_PIPE(I) | | INVERTER COMP SUCTION PIPE THERMISTOR |
| | D_PIPE(C) | | CONSTANT COMP DISCHARGE PIPE THERMISTOR |
| CN26 | D_PIPE(I) | VT | INVERTER COMP DISCHARGE PIPE THERMISTOR |
| | HEX_PIPE(C) | | CONDENSOR PIPE THERMISTOR(C) |
| | HEX_PIPE(I) | | CONDENSOR PIPE THERMISTOR(I) |
| CN27 | SC-OUT | YL | SUBCOOLING CIRCUIT OUTLET PIPE THERMISTOR |
| | SC-IN | | SUBCOOLING CIRCUIT INLET PIPE THERMISTOR |
| | SC-L | | SUBCOOLING CIRCUIT LIQUID PIPE THERMISTOR |
| CN28 | P-SEN(H) | RD | HIGH PRESSURE SENSOR |
| CN29 | P-SEN(L) | BL | LOW PRESSURE SENSOR |
| JIG 1 | JIG | WH | JIG POWER |
| JIG 2 | JIG | WH | JIG POWER |

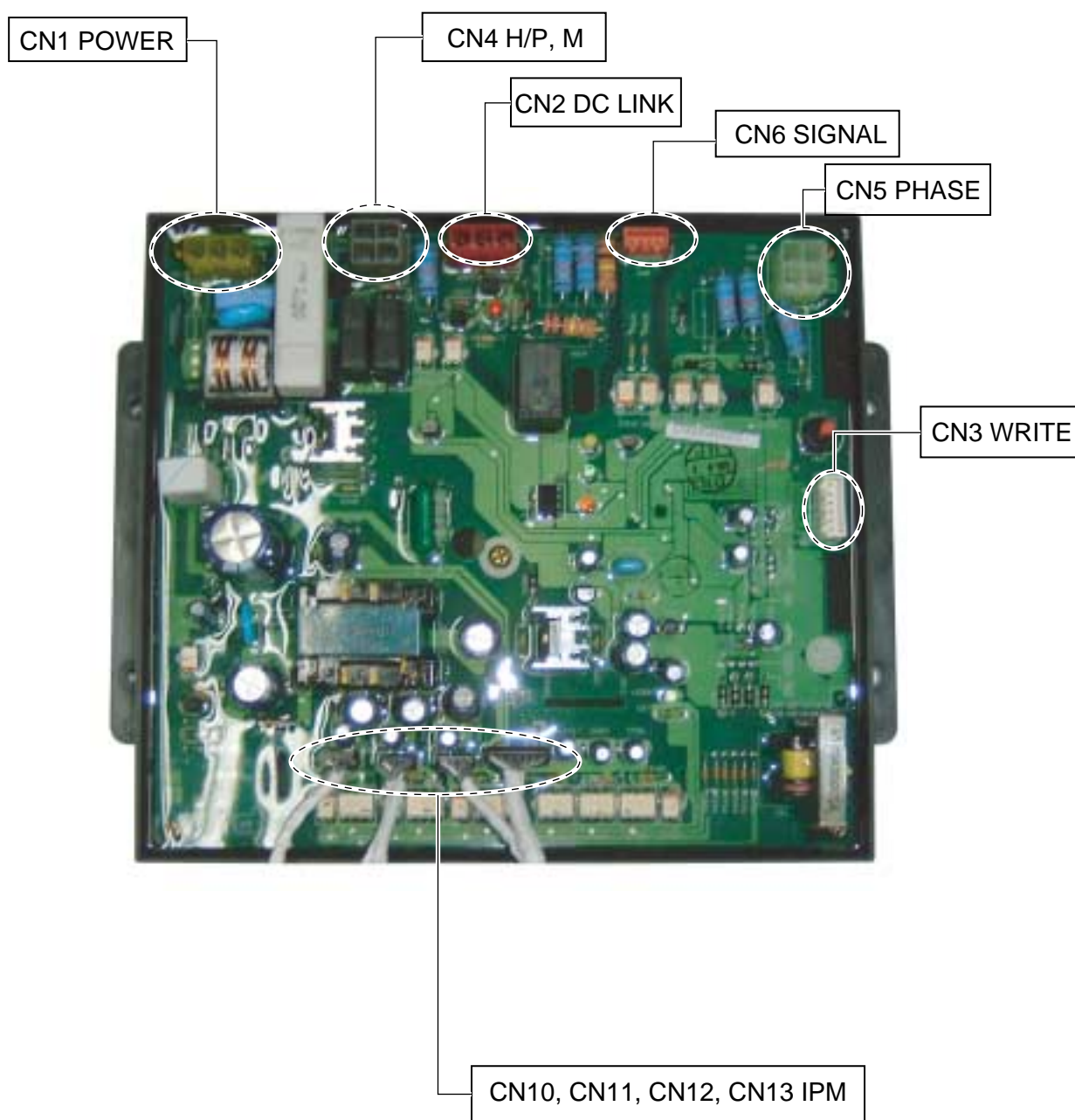
Sub Board

| CONNECTOR No. | SPEC | COLOR | DESCRIPTION |
|---------------|-------------------|-------|--|
| CN01 | AC POWER IN | NT | AC POWER |
| CN02 | AC TRANS IN | NT | AC POWER TO TRANS |
| CN03 | AC TRANS OUT | YL | AC POWER FROM TRANS |
| CN04 | 4WAY | BK | 4WAY REVERSING VALVE |
| CN05 | LIQ(A) | RD | CONSTANT(A) COMP LIQUID INJECTION VALVE |
| CN06 | LIQ(B) | GY | CONSTANT(B) COMP LIQUID INJECTION VALVE |
| CN07 | HEATER(A) | YL | CONSTANT(A) COMP CRANK HEATER |
| CN08 | HEATER(B) | WH | CONSTANT(B) COMP CRANK HEATER |
| CN10 | HOT-GAS | GR | HOT GAS BYPASS VALVE |
| CN11 | OILPASS(A) | BL | NOT USE |
| CN12 | OILPASS(B) | OR | NOT USE |
| CN14 | MAGNET(A) | RD | CONSTANT(A) COMP MAGNETIC SWITCH |
| CN15 | MAGNET(B) | BL | CONSTANT(B) COMP MAGNETIC SWITCH |
| CN16 | H/P | BL | HIGH PRESSURE |
| CN17 | PHASE | NT | 3 PHASE DETECT |
| CN18 | FAN(R) | RD | FAN MOTOR(RIGHT) |
| CN19 | FAN(L) | BL | FAN MOTOR(LEFT) |
| CN20 | LEV-OUT | RD | LINEAR EXPANSION VALVE(MAIN) |
| CN21 | LEV-SC | BL | LINEAR EXPANSION VALVE(SUBCOOLING CIRCUIT) |
| CN22 | TO JIG | NT | TRANSMISSION WITH JIG |
| CN23 | CEN_CONTROL/WRITE | BL | NOT USE |
| CN24 | TO MAIN OUTDOOR | BK | TRANSMISSION WITH MAIN OUTDOOR UNIT |
| CN26 | OUT-AIR | BK | OUTDOOR AIR THERMISTOR |
| | S_PIPE(A) | | CONSTANT(A) COMP SUCTION PIPE THERMISTOR |
| | D_PIPE(B) | | CONSTANT(B) COMP DISCHARGE PIPE THERMISTOR |
| CN27 | D_PIPE(A) | VT | CONSTANT(A) COMP DISCHARGE PIPE THERMISTOR |
| | HEX_PIPE(A) | | CONDENSOR PIPE THERMISTOR(A) |
| | HEX_PIPE(B) | | CONDENSOR PIPE THERMISTOR(B) |
| CN28 | SC-OUT | YL | SUBCOOLING CIRCUIT OUTLET PIPE THERMISTOR |
| | SC-IN | | SUBCOOLING CIRCUIT INLET PIPE THERMISTOR |
| | SC-L | | SUBCOOLING CIRCUIT LIQUID PIPE THERMISTOR |
| CN29 | P-SEN(H) | RD | HIGH PRESSURE SENSOR |
| CN30 | P-SEN(L) | BL | LOW PRESSURE SENSOR |
| JIG1 | JIG | WH | JIG POWER |
| JIG2 | JIG | WH | JIG POWER |

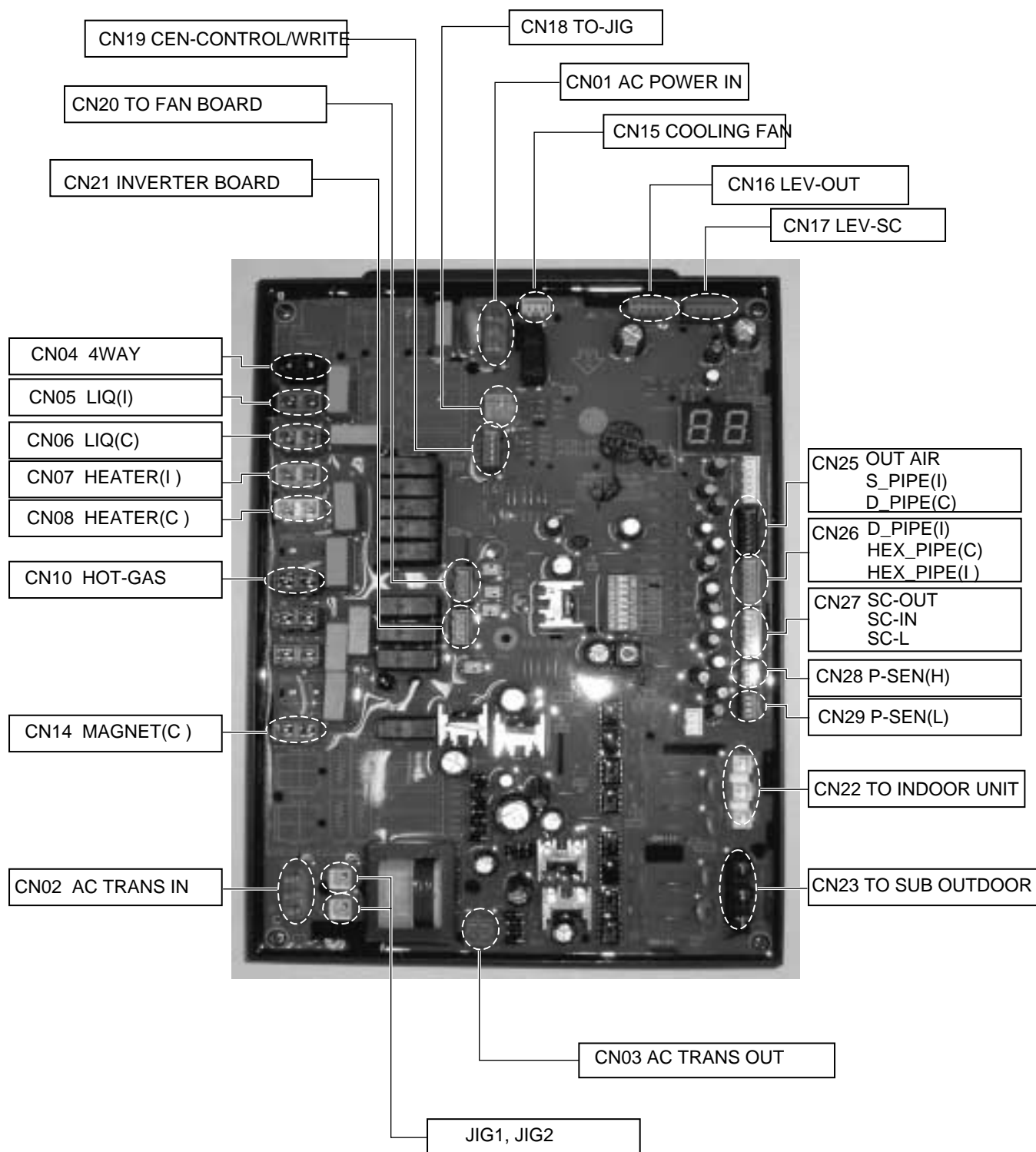
COLOR

| | |
|----|---------|
| WH | WHITE |
| RD | RED |
| BL | BULE |
| YL | YELLOW |
| GY | GRAY |
| GR | GREEN |
| NT | NATURAL |
| BK | BLACK |
| VT | VIOLET |
| OR | ORANGE |
| BR | BROWN |

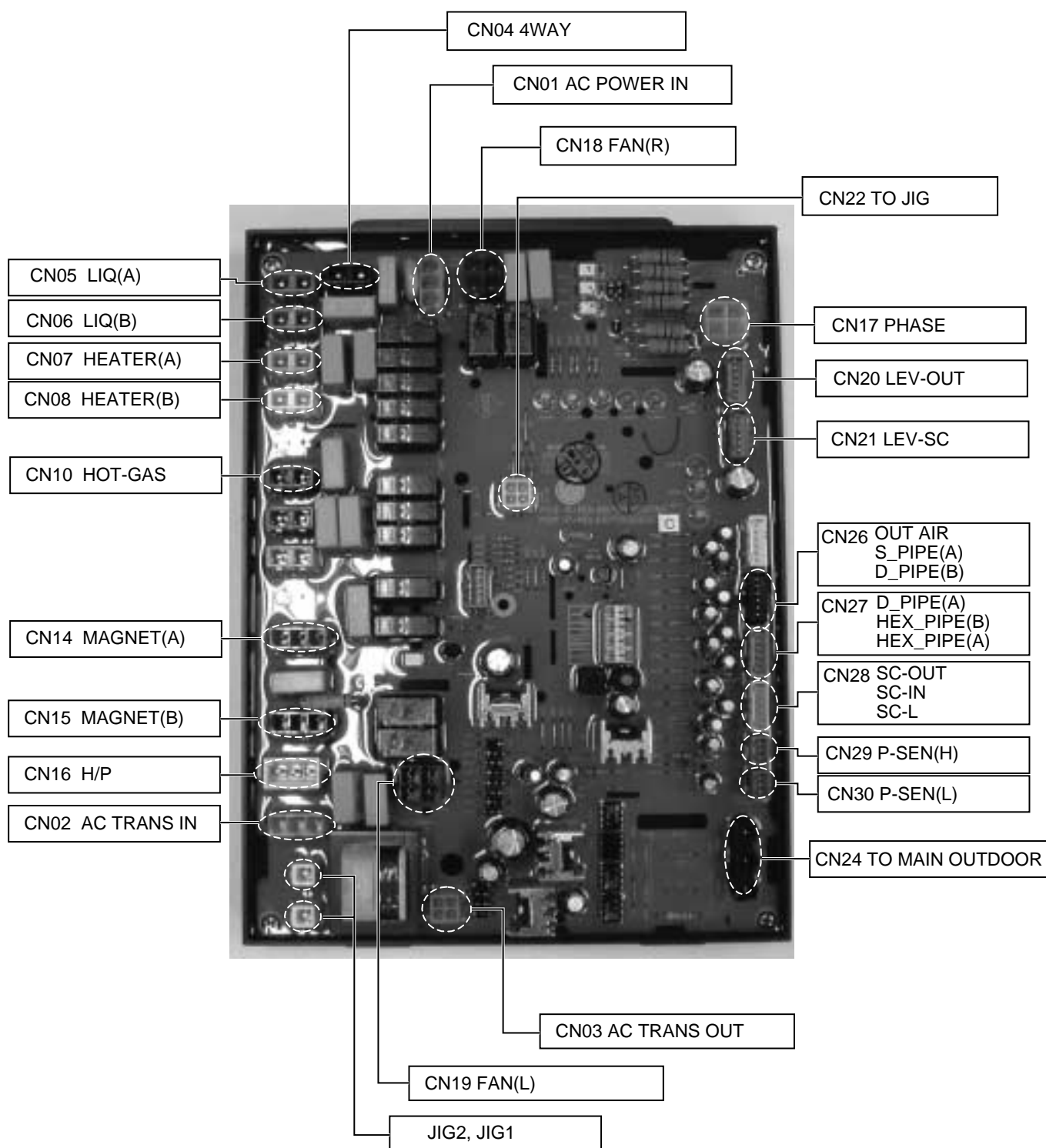
Inverter Board



Main Board



Sub Board



Trouble shooting guide

Trouble shooting guide

| | |
|--|-----|
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1. The phenomena from main component failure

The phenomena from main component failure

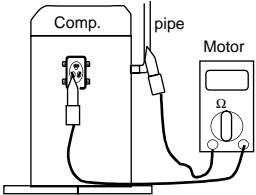
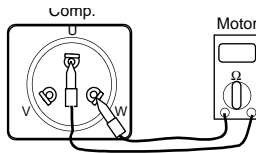
| Component | Phenomenon | Cause | Check method and Trouble shooting |
|--------------------|---|---|---|
| Compressor | Not operating | Motor insulation broken | Check resistance between terminals and chassis |
| | | Strainer locking | Service necessary |
| | | Oil shortage | Open drain cock and check oil |
| | Stop during running | Motor insulation failure | Check resistance between terminals and chassis |
| | Loud noise during running | Phase sequence fault | Check wiring(R, S, T) sequence, or Inter change last two phase connection. |
| Outdoor fan | High pressure error at cooling | Motor failure, Bad ventilation around outdoor heat exchanger | Check the outdoor fan operation after being turned the Outdoor Unit off for some time. Remove obstacles around the Outdoor Unit |
| Outdoor LEV | Heating failure, frequent defrosting | Bad connector contact | Check connector |
| | No operating sound at applying power | Coil failure | Check resistance between terminals |
| | Heating failure, Frozen outdoor heat exchanger part | LEV clogged | Service necessary |
| | Low pressure error or discharge temperature error | LEV clogged | Service necessary |

When system fault occurs, the error code is displayed at Indoor Unit display or remote control display, the trouble shooting guide is in the service manual

2. Checking Method for Key Components

2.1 Compressor

Check and ensure in following order when error related with the compressor or error related with power occurs during operation:

| No. | Checking Item | Symptom | Countermeasure |
|-----|--|--|--|
| 1 | Is how long power on during operation? | 1) Power on for 12 hours or more | * Go to No.2. |
| | | 2) Power on for 12 hours or less | * Go to No.2 after applying power for designated time (12 hours). |
| 2 | Does failure appears again when starting operation? Method to measure insulation resistance  Figure 1. Method to measure coil resistance  Figure 2. | 1) The compressor stops and same error appears again. | * Check IMP may fail. |
| | | 2) If output voltage of the inverter is stably output. *1 | * Check coil resistor and insulation resistor. If normal, restart the unit. If same symptom occurs, replace the compressor. * Insulation resistor: 2MW or more Coil resistor: U-V: $1.30 \pm 7\% \Omega$ V-W: $1.33 \pm 7\% \Omega$ W-U: $1.36 \pm 7\% \Omega$ |
| | | 3) If output voltage of the inverter is unstable or it is 0V. (When incapable of using a digital tester) | * Check the IPM. If the IPM is normal, replace the inverter board. * Check coil resistor and insulation resistor. |

[Cautions when measuring voltage and current of inverter power circuit]

Measuring values may differ depending on measuring tools and measuring circuits since voltage, current in the power supply or output side of the inverter has no sine waveform.

Especially, output voltage changes when output voltage of the inverter has a pattern of pulse wave.

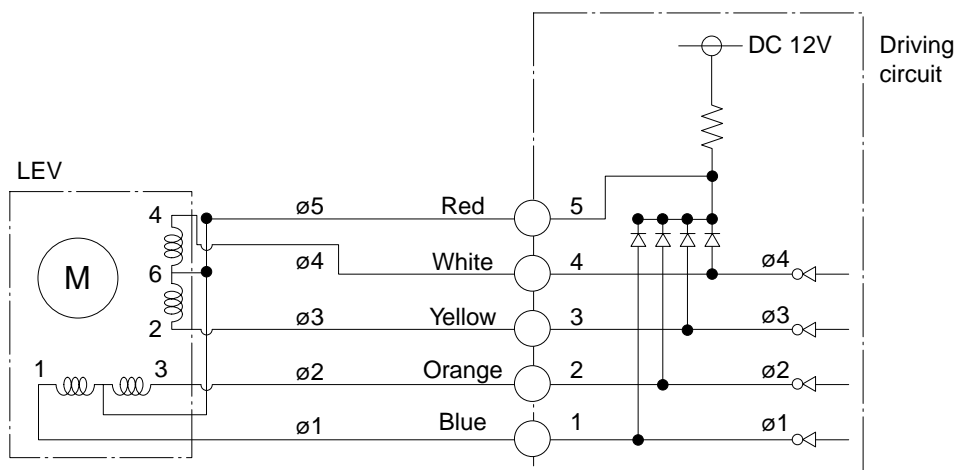
In addition, measuring values appear largely differently depending on measuring tools.

- 1) If using a movable tester when checking that output voltage of the inverter is constant (when comparing relative voltage between lines), always use an analog tester. Especially exercise particular caution if the output frequency of the inverter is low, when using a movable tester, where change of measured voltage values is large between other lines, when virtually same values appear actually or where there is danger to determine that failure of the inverter occurred.
- 2) You can use rectification voltmeter ($\rightarrow +$) if using commercial frequency tester when measuring output values of the inverter (when measuring absolute values). Accurate measuring values cannot be obtained with a general movable tester (For analog and digital mode).

2.2 Fan Motor

| Checking Item | Symptom | Countermeasure |
|--|--|---|
| (1) The fan motor does not operate. Does failure appears again when starting operation? (2) Vibration of the fan motor is large. | 1) When power supply is abnormal | * Modify connection status in front of or at the rear of the breaker, or if the power terminal console is at frosting condition. * Modify the power supply voltage is beyond specified scope. |
| | 2) For wrong wiring | * For following wiring. 1. Check connection status. 2. Check contact of the connector. 3. Check that parts are firmly secured by tightening screws. 4. Check connection of polarity. 5. Check short circuit and grounding. |
| | 3) For failure of motor | * Measure winding resistance of the motor coils. Main outdoor unit: INV [$19.0 \pm 7\% \Omega(75^{\circ}\text{C})$] Sub outdoor unit: Main [$22.8 \pm 7\% \Omega(75^{\circ}\text{C})$] R1 [$34.8 \pm 7\% \Omega(75^{\circ}\text{C})$] R2 [$3.7 \pm 7\% \Omega(75^{\circ}\text{C})$] |
| | 4) For defective fuse 5) For failure of circuit board | * Replace the fuse if there is defect (Fuse 800V 30A). Replace the circuit board in following procedures if problems occur again when powering on and if there are no matters equivalent to items as specified in above 1) through 4). (Carefully check both connector and grounding wires when replacing the circuit board.) 1. Replace only fan control boards. If starting is done, it means that the fan control board has defect. 2. Replace both fan control board and the main board. If starting is done, it means that the main board has defect. 3. If problems continue to occur even after counter-measure of No.1 and No.2, it means that both boards has defect. |

2.3 Linear Expansion Valve



• Pulse signal output value and valve operation

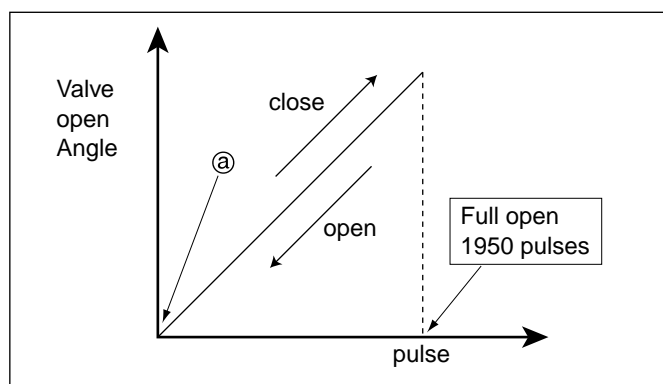
| Output(ø) No. | Output state | | | | | | | |
|---------------|--------------|-----|-----|-----|-----|-----|-----|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| ø1 | ON | OFF | OFF | OFF | OFF | OFF | ON | ON |
| ø2 | ON | ON | ON | OFF | OFF | OFF | OFF | OFF |
| ø3 | OFF | OFF | ON | ON | ON | OFF | OFF | OFF |
| ø4 | OFF | OFF | OFF | OFF | ON | ON | ON | OFF |

• Output pulse sequence

- In valve close state: 1 → 2 → 3 → 4 → 5 → 6 → 7 → 8 → 1
- In valve open state: 8 → 7 → 6 → 5 → 4 → 3 → 2 → 1 → 8

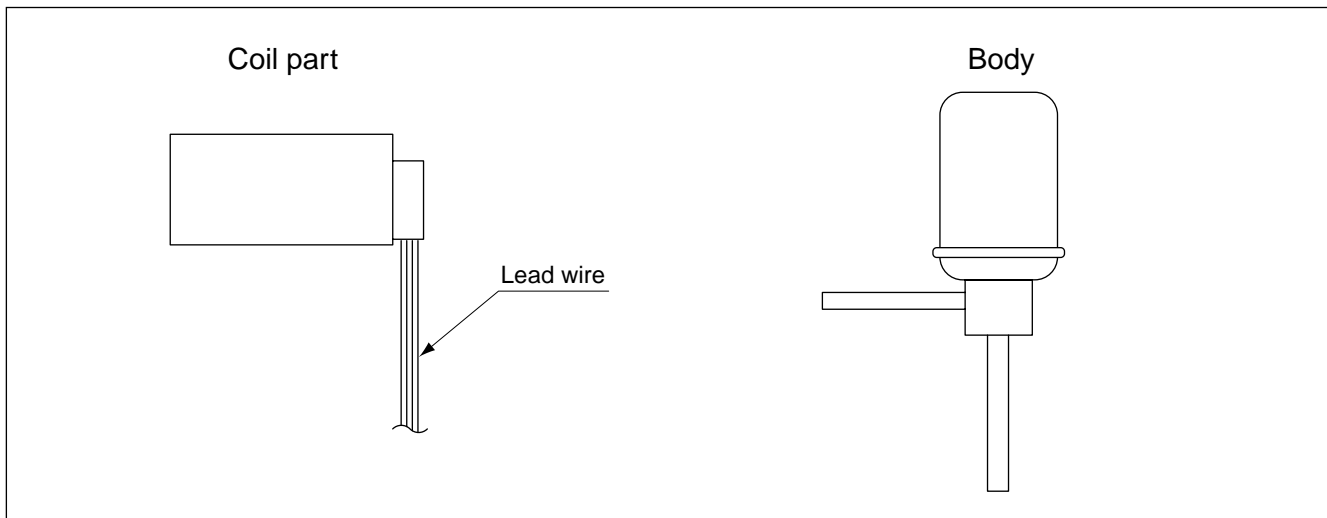
- * 1. If LEV open angle is not change, all of output phase will be OFF
- 2. If output phase is different or continuously in the ON state, motor will not operate smoothly and start vibrating.

• LEV valve operation

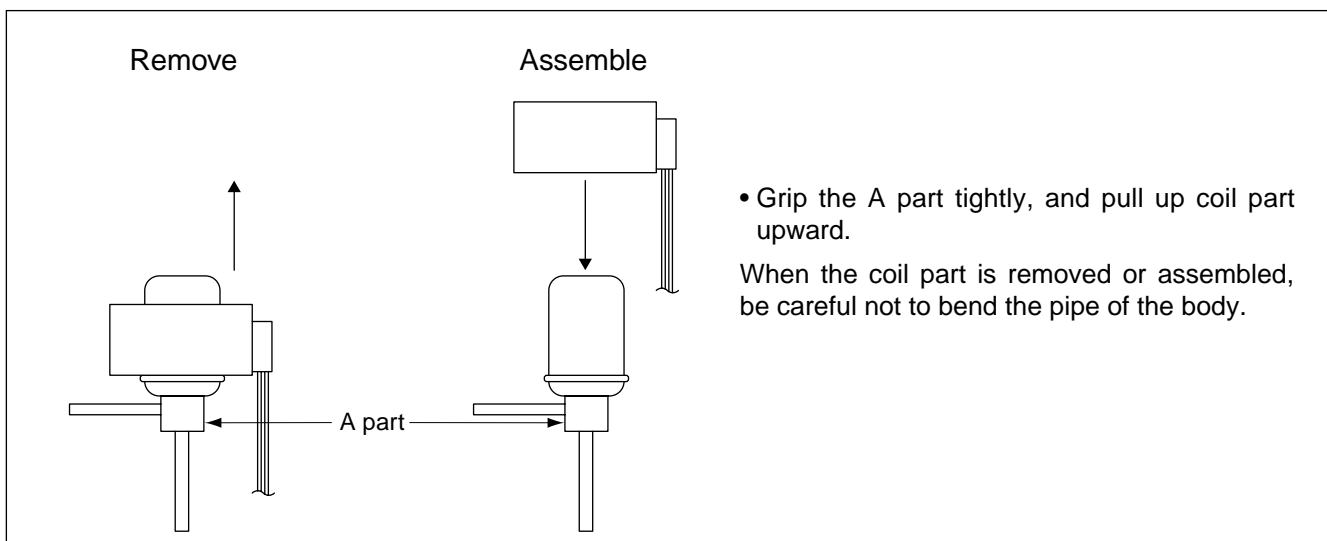


- At power ON, open angle signal of 2000 pulses output and valve position is set to @
If valve is operated smoothly, no noise and vibration is occurred and if valve is closed. noise occurs.
- If you contact screw driver to LEV, and contact your ear to driver hand grip. you can confirm the noise from LEV.
- If liquid refrigerant is in LEV, the noise is lower.

• LEV Coil and body(Outdoor unit)

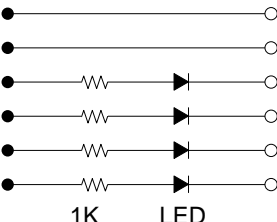


• Remove and assemble the coil



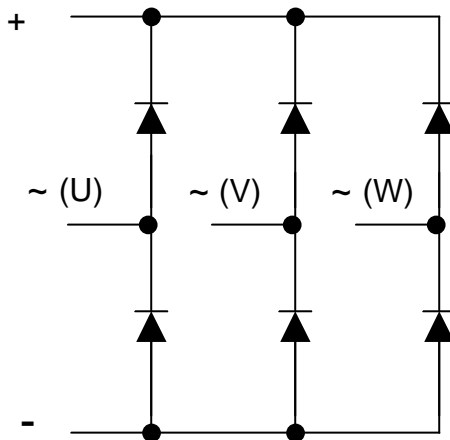
• LEV failure check method

* Attention: Outdoor unit LEV and Indoor unit LEV are different in specification,
so the repair process may be different

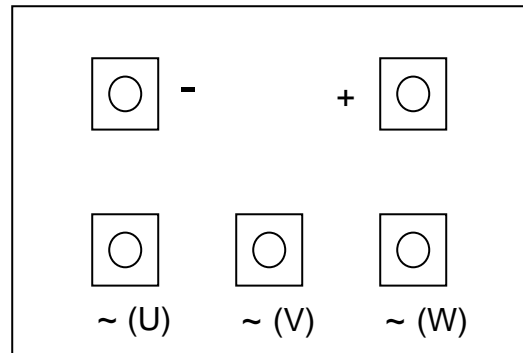
| Failure mode | Diagnosis | Repair process | Unit |
|---------------------------------------|---|---|-----------------------|
| Microcomputer Driving circuit failure | <p>1.Disconnect the LEV connector form control board and connect testing LED</p>  <p>2. Main power ON, pulse signal is out from LEV for 17 sec. If LEDs do not turn on, or are in on state continuously, then driving circuit is abnormal</p> | Check and replace Indoor unit control board | Indoor unit |
| LEV locking | 1.If LEV is locked, in no load state, the driving motor rotate, and clicking sound always occurs | Replace LEV | Indoor / Outdoor unit |
| LEV Motor coil short or misconnection | <p>1. Check the resistance between coil terminal (red-white, red-yellow, red-orange, red-blue)</p> <p>2. If the estimated resistance value is in $52 \pm 3\Omega$ then the LEV is normal</p> | Replace LEV | Outdoor unit |
| | <p>1. Check the resistance between coil terminal (brown-white, brown-yellow, brown-orange, brown-blue)</p> <p>2. If the estimated resistance value is in $150 \pm 10\Omega$ then the LEV is normal</p> | Replace LEV | Indoor unit |
| Full closing (valve leakage) | <p>1. Operate indoor unit with FAN mode and operate another indoor unit with COOLING mode</p> <p>2. Check indoor unit(FAN mode) liquid pipe temperature (from operation monitor of outdoor unit control board)</p> <p>3. When fan rotate and LEV is fully closed, if there is any leakage, then the temperature is down</p> <p>If estimated temperature is very low in comparison with suction temperature which is displayed at remote controller then the valve is not fully closed</p> | If the amount of leakage is much, Replace LEV | Indoor unit |

2.4 3Phase Bridge Diode

Internal circuit diagram



Appearance



1. Unplug the + terminal of electrolytic capacitor from the + terminal of 3phase bridge diode
2. Set the multi meter to resistance mode
Check and estimate the resistance between each pair of terminal (+, -), (+, ~ (U)), (+, ~ (V)), (+, ~ (W)), (~ (U), -), (~ (V), -), (~ (W), -), the estimated value should be large enough to Mega Ohm unit.
3. Set the multi meter to diode mode, and estimate between each pair of terminal (~ (U), +), (~ (V), +), (~ (W), +), (-, ~ (U)), (-, ~ (V)), (-, ~ (W)), the estimated value should be stable and be in between 0 to 1.
(ex: 0.35, 0.46 etc.)



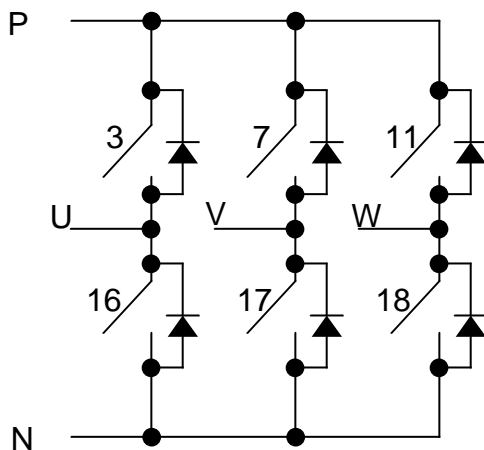
If one of the above articles is not satisfied,
bridge diode must be inferior and to be replaced

Caution

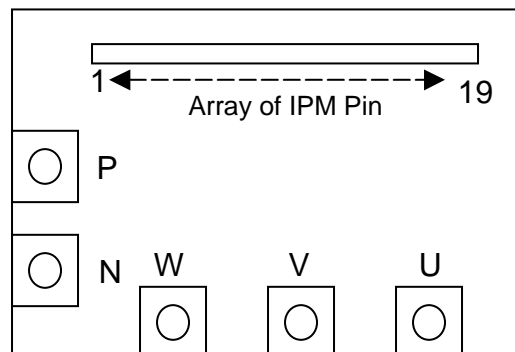
In case that the control box is opened and before checking electrical parts, it should be checked that the LED 01Y (in inverter board, refer to page 172) turned off (wait 3 minutes after main power OFF), otherwise it may cause electrical shock.

2.5 IPM(Integrated Power Module)

Internal circuit diagram



Appearance



1. Unplug the +, – terminal of electrolytic capacitor from the P and N terminal of IPM
2. Set the multi meter to resistance mode
Check and estimate the resistance between each pair of terminal **(P, N), (P, U), (P, V), (P, W), (U, N), (V, N), (W, N)**, the estimated value should be large enough to Mega Ohm unit.
3. Set the multi meter to resistance mode
Check and estimate the resistance between each pair of terminal **(3, U), (7, V), (11, W), (16, N), (17, N), (18, N)**, the estimated value should be large enough to Mega Ohm unit.
the check point is inside of the screw hole **(U, V, W, N)**, if check points are plate face of the terminal, then estimated values are gate resistance.
4. Set the multi meter to diode mode, and estimate between each pair of terminal **(U, P), (V, P), (W, P), (N, U), (N, V), (N, W)**, the estimated value should be stable and be in between 0 to 1. (ex: 0.35, 0.46 etc.)



*If one of the above articles is not satisfied,
IPM must be inferior and is to be replaced*

Caution

In case that the control box is opened and before checking electrical parts, it should be checked that the LED 01Y (in inverter board, refer to page 172) turned off (wait 3 minutes after main power OFF), otherwise it may cause electrical shock.

2.6 Other

Electrolytic capacitor and resistor for voltage distribution

- 1) Disconnect an terminal of voltage distribution resistor from each DC link electrolytic capacitor
- 2) Set the multi meter to resistance mode, connect the probe to +,- terminal of the capacitor. If the estimated resistance value is increase continuously without short(value is 0), then the resistor is normal
- 3) Set the multi meter to resistance mode, confirm that the resistance value of the resistor is around 270 kOhm



Check and replace inferior components

Caution

In case that the control box is opened and before checking electrical parts, it should be checked that the LED 01Y turned off (wait 3 minutes after main power OFF), otherwise it may cause electrical shock.

| Parts | Phenomena | Cause | Check and Countermeasures |
|-------------|---|---|--|
| Compressor | No operation | Destruction of motor insulation | Measure resistor between compressor power terminal and sash |
| | Stop during operation | Destruction of motor insulation | Measure resistor between compressor power terminal and sash |
| | Loud noise during operation | Connection wire | Check power wiring of the compressor power. |
| Outdoor fan | High pressure error during cold operation | Failure of fan motor. Failure of air flow around outdoor heat exchanger. | Check that the fan rotates when turning the outdoor unit on after turning it off. Remove obstacles around the outdoor unit. |
| Outdoor LEV | No heating condition. Frequent defrost operation. | Poor wire contact | Check wire connectors. |
| | No operation sound even after powering on | Poor coil | Check resistance between terminals. Check the LEV. |
| | No heating condition. Failure of outdoor heat exchanger. | LEV clogged | Replace the LEV. |
| | Low pressure error or discharge error | LEV clogged | Replace the LEV. |

If the system failed, error code is displayed on 7 segments LED of the wired remote control and the outdoor unit control board.

3. Self-diagnosis function

Self-Diagnosis Function

Error Indicator

- This function indicates types of failure in self-diagnosis and occurrence of failure for air condition.
- Error mark is displayed on display window of Indoor Units and wired remote controller, and 7-segment LED of Outdoor Unit control board as shown in the table.
- If more than two troubles occur simultaneously, lower number of error code is first displayed.
- After error occurrence, if error is released, error LED is also released simultaneously.

| | Display | | Title | Cause of Error |
|---------------------------|---------|---|--|---|
| Indoor Unit related error | 0 | 1 | Indoor Unit air sensor | Indoor Unit air sensor open or short |
| | 0 | 2 | Indoor Unit sensor(inlet pipe) | Indoor Unit inlet pipe sensor open or short |
| | 0 | 3 | Wired remote control ↔ Indoor Unit transmission | In the case that Indoor Unit can not receive any signal from wired remote control successively for 3 minutes |
| | 0 | 4 | Drain pump | Malfunction of drain pump |
| | 0 | 5 | Outdoor unit ↔ Indoor Unit transmission | In the case that Indoor Unit can not receive any signal from Outdoor Unit successively for 3 minutes |
| | 0 | 6 | Indoor Unit outlet pipe sensor | Indoor Unit outlet pipe sensor open or short |
| | 0 | 7 | The other operation mode | In the case that an Indoor Unit is operated the other operation mode different from the operated Indoor Unit |
| | 0 | 8 | Not in use | Not in use |
| | 0 | 9 | Serial No. Error | In the case that the serial number marked on EEPROM of Indoor Unit is 0 or FFFFFFFF |
| Power related error | 2 | 1 | DC peak | IPM over temperature or compressor malfunction |
| | 2 | 2 | Excess of limited current of Main Outdoor Unit INV compressor | When current detection is over the maximum current limit |
| | 2 | 3 | Poor voltage charge for driving INV compressor | DC charging is not performed after starting relay turn on |
| | 2 | 4 | High Pressure Switch of Main Outdoor Unit | Suspension of compressor by the Main Outdoor Unit High Pressure switch |
| | 2 | 5 | Low/Over voltage | Input voltage is out of tolerance of rating voltage |
| Compressor related error | 3 | 1 | Not in use | Not in use |
| | 3 | 2 | Discharge temperature of Main Outdoor Unit (INV compressor) | Due to over rising of INV compressor discharge temperature, Compressor off is occurred 3 times in 1 hour |
| | 3 | 3 | Discharge temperature of Main Outdoor Unit (constant speed compressor) | Due to over rising of constant speed compressor discharge temperature, Compressor off is occurred 3times in an hour |
| | 3 | 4 | High pressure of Main Outdoor Unit | Compressor Off by excessive increase of Main Outdoor Unit High Pressure |
| | 3 | 5 | Low pressure of Main Outdoor Unit | Compressor Off by excessive reduction of Main Outdoor Unit Low Pressure |

| | Display | | Title | Cause of Error |
|----------------------------|---------|---|--|---|
| Outdoor unit related error | 4 | 0 | Current detect a(CT) sensor of Main Outdoor Unit Inverter compressor | Current detect (CT) sensor of Main Outdoor Unit Inverter compressor open or short |
| | 4 | 1 | Discharge temperature sensor of Main Outdoor Unit Inverter compressor | Open or short of discharge temperature sensor of Main Outdoor Unit Inverter compressor |
| | 4 | 2 | Outdoor Low Pressure sensor of Main Outdoor Unit | Open or short of Outdoor Low Pressure sensor of Main Outdoor Unit |
| | 4 | 3 | Outdoor High Pressure sensor of Main Outdoor Unit | Open or short of Outdoor High Pressure sensor of Main Outdoor Unit |
| | 4 | 4 | Outdoor air sensor of Main Outdoor Unit | Open or short of Outdoor air sensor of Main Outdoor Unit |
| | 4 | 5 | Heat exchanger sensor of Main Outdoor Unit (front side) | Open or short of heat exchanger sensor of Main Outdoor Unit (front side) |
| | 4 | 6 | Suction temperature sensor of Main Outdoor Unit | Open or short of Suction temperature sensor of Main Outdoor Unit |
| | 4 | 7 | Discharge temperature sensor of the constant speed compressor of Main Outdoor Unit | Open or short of discharge temperature sensor of the constant speed compressor of Main Outdoor Unit |
| | 4 | 8 | Heat exchanger sensor of Main Outdoor Unit (rear side) | Open or short Heat exchanger sensor of Main Outdoor Unit (rear side) |
| Transmission related error | 5 | 1 | Connection of excessive capacity (excessive Indoor Unit capacity) | The displayed number of Indoor Units being connected is over rated capacity of Outdoor Unit |
| | 5 | 2 | IMV control part ➡ Main Outdoor Unit control part | Failing to receive signal of the Main Outdoor Unit control part from the INV control part |
| | 5 | 3 | Indoor Unit ➡ Main Outdoor Unit control part | Failing to receive signal of the Main Outdoor Unit control part from the Indoor Unit control part |
| | 5 | 4 | Reverse connection of the R,S,T power line of Main Outdoor Unit | Misconnection or disconnection of R,S,T power line of Main Outdoor Unit |
| | 5 | 7 | Transmission related error (Main control part ➡ INV control part) | Failing to receive signal of the INV control part from the Main control part |
| Outdoor Unit related error | 6 | 2 | Excessive temperature of INV control part radiation panel | Excessive temperature of INV control part radiation panel |
| | 6 | 5 | Fan temperature sensor | Open or short of fan temperature sensor |

| | Display | | | Title | Cause of Error |
|----------------------------|---------|---|---|--|--|
| Compressor related error | 1 | 0 | 0 | Discharge temperature of Main Outdoor constant speed compressor 1 of Sub1 Outdoor Unit | Compressor Off by excessive increase of discharge temperature of constant speed compressor1 of the Sub1 Outdoor Unit |
| | 1 | 0 | 1 | Discharge temperature of Main Outdoor constant speed compressor 2 of Sub1 Outdoor Unit | Compressor Off by excessive increase of discharge temperature of constant speed compressor1 of the Sub2 Outdoor Unit |
| | 1 | 0 | 2 | Discharge temperature of Main Outdoor constant speed compressor 1 of Sub2 Outdoor Unit (3 units) | Compressor Off by excessive increase of discharge temperature of constant speed compressor1 of the Sub2 Outdoor Unit (3 units) |
| | 1 | 0 | 3 | Discharge temperature of Main Outdoor constant speed compressor 2 of Sub2 Outdoor Unit (3 units) | Compressor Off by excessive increase of discharge temperature of constant speed compressor2 of the Sub2 Outdoor Unit (3 units) |
| Transmission related error | 1 | 0 | 4 | Transmission related error between Outdoor Units (Sub1 Outdoor Unit → Main Outdoor Unit) | If failing to receive signal of the Sub1 Outdoor Unit from the Main Outdoor Unit control part |
| | 1 | 0 | 5 | Transmission related error Main Outdoor Unit fan driving (fan → Outdoor Unit) | If failing to receive signal of the fan driving control part from the Main Outdoor Unit control part |
| | 1 | 0 | 6 | Occurrence of over-current at Main Outdoor Unit fan motor (IPM Fault) | Occurrence of over-current at Main Outdoor Unit fan motor (IPM Fault) |
| | 1 | 0 | 7 | Low Voltage of Main Outdoor Unit fan motor | Occurrence of Low Voltage of Main Outdoor Unit fan motor |
| | 1 | 0 | 8 | Transmission related error of Main Outdoor Unit fan motor (Outdoor Unit → fan) | If failing to receive signal of the Main Outdoor Unit control part from the fan driving control part |
| | 1 | 0 | 9 | High Pressure switch of Sub1 Outdoor Unit | Operation of High Pressure switch due to increase of Sub1 Outdoor Unit High Pressure increase |
| | 1 | 1 | 0 | Reverse connection of the R, S, T Power line of Sub1 Outdoor Unit | Misconnection or disconnection of R, S, T Power line of Sub1 Outdoor Unit |
| | 1 | 1 | 1 | Transmission related error between Outdoor Units (Main Outdoor Unit → Sub1 Outdoor Unit) | If failing to receive signal of the Main Outdoor Unit control part from the Sub1 Outdoor Unit control part |
| Outdoor Unit related error | 1 | 1 | 3 | Main Outdoor Unit liquid pipe temperature sensor | Open or short of Main Outdoor Unit liquid pipe temperature sensor |
| | 1 | 1 | 4 | Main Outdoor Unit excessive cooling inlet temperature sensor | Open or short of Main Outdoor Unit excessive cooling inlet temperature sensor |
| | 1 | 1 | 5 | Main Outdoor Unit excessive cooling outlet temperature sensor | Open or short of Main Outdoor Unit excessive cooling outlet temperature sensor |
| | 1 | 1 | 6 | Sub1 Outdoor Unit High Pressure sensor | Open or short of Sub1 Outdoor Unit High Pressure sensor |
| | 1 | 1 | 7 | Sub1 Outdoor Unit Low Pressure sensor | Open or short of Sub1 Outdoor Unit Low Pressure sensor |
| | 1 | 1 | 8 | Sub1 Outdoor Unit air temperature sensor | Open or short of Sub1 Outdoor Unit air temperature sensor |
| | 1 | 2 | 0 | Sub1 Outdoor Unit suction temperature sensor | Open or short of Sub1 Outdoor Unit suction temperature sensor |
| | 1 | 2 | 1 | Sub1 Outdoor Unit constant speed compressor1 discharge temperature sensor | Open or short of Sub1 Outdoor Unit constant speed compressor1 discharge temperature sensor |

Self-diagnosis function

| | Display | | | Title | Cause of Error |
|----------------------------|---------|---|---|---|---|
| Outdoor Unit related error | 1 | 2 | 2 | Sub1 Outdoor Unit constant speed compressor2 discharge temperature sensor | Open or short of Sub1 Outdoor Unit constant speed compressor2 discharge temperature sensor |
| | 1 | 2 | 3 | Sub1 Outdoor Unit heat exchanger sensor (front side) | Open or short of heat exchanger sensor of Sub1 Outdoor Unit (front side) |
| | 1 | 2 | 4 | Sub1 Outdoor Unit heat exchanger sensor (rear side) | Open or short of heat exchanger sensor of Sub1 Outdoor Unit (rear side) |
| | 1 | 2 | 5 | Sub1 Outdoor Unit liquid pipe temperature sensor | Open or short of Sub1 Outdoor Unit liquid pipe temperature sensor |
| | 1 | 2 | 6 | Sub1 Outdoor Unit excessive cooling inlet temperature sensor | Open or short of Sub1 Outdoor Unit excessive cooling inlet temperature sensor |
| | 1 | 2 | 7 | Sub1 Outdoor Unit excessive cooling outlet temperature sensor | Open or short of Sub1 Outdoor Unit excessive cooling outlet temperature sensor |
| | 1 | 2 | 8 | Sub2 Outdoor Unit High Pressure sensor (3Units) | Open or short of Sub2 Outdoor Unit High Pressure sensor (3Units) |
| | 1 | 2 | 9 | Sub2 Outdoor Unit Low Pressure sensor (3Units) | Open or short of Sub2 Outdoor Unit Low Pressure sensor (3Units) |
| | 1 | 3 | 0 | Sub2 Outdoor Unit air temperature sensor (3Units) | Open or short of Sub2 Outdoor Unit air temperature sensor (3Units) |
| | 1 | 3 | 2 | Sub2 Outdoor Unit suction temperature sensor (3Units) | Open or short of Sub2 Outdoor Unit suction temperature sensor (3Units) |
| | 1 | 3 | 3 | Sub2 Outdoor Unit constant speed compressor1 discharge temperature sensor (3Units) | Open or short of Sub2 Outdoor Unit constant speed compressor1 discharge temperature sensor (3Units) |
| | 1 | 3 | 4 | Sub2 Outdoor Unit constant speed compressor2 discharge temperature sensor (3Units) | Open or short of Sub2 Outdoor Unit constant speed compressor2 discharge temperature sensor (3Units) |
| | 1 | 3 | 5 | Sub2 Outdoor Unit heat exchanger temperature sensor (front side) (3Units) | Open or short of Sub2 Outdoor Unit heat exchanger temperature sensor(front side) (3Units) |
| | 1 | 3 | 6 | Sub2 Outdoor Unit heat exchanger temperature sensor (rear side) (3Units) | Open or short of Sub2 Outdoor Unit heat exchanger temperature sensor(rear side) (3Units) |
| | 1 | 3 | 7 | Sub2 Outdoor Unit liquid pipe temperature sensor (3Units) | Open or short of Sub2 Outdoor Unit liquid pipe temperature sensor (3units) |
| | 1 | 3 | 8 | Sub2 Outdoor Unit excessive cooling inlet temperature sensor (3Units) | Open or short of Sub2 Outdoor Unit excessive cooling inlet temperature sensor (3units) |
| | 1 | 3 | 9 | Sub2 Outdoor Unit excessive cooling outlet temperature sensor (3Units) | Open or short of Sub2 Outdoor Unit excessive cooling outlet temperature sensor (3units) |
| | 1 | 4 | 0 | Sub2 Outdoor Unit High Pressure sensor (3Units) | Open or short of Sub2 Outdoor Unit High Pressure sensor (3units) |
| | 1 | 4 | 1 | Reverse connection of the R, S, T Power line of Sub2 Outdoor Unit | Misconnection or disconnection of R, S, T Power line of Sub2 Outdoor Unit |
| | 1 | 4 | 2 | Transmission related error between Outdoor Units (Main Outdoor Unit → Sub2 Outdoor Unit) (3Units) | If failing to receive signal of the central control part from the main control part |
| | 1 | 4 | 3 | High Pressure of Sub1 Outdoor Unit | Compressor Off by excessive increase of Sub1 Outdoor Unit High Pressure |

| | Display | | | Title | Cause of Error |
|----------------------------|---------|---|---|--|---|
| Outdoor Unit related error | 1 | 4 | 4 | Low Pressure of Sub1 Outdoor Unit | Compressor Off by excessive reduction of Sub2 Outdoor Unit Low Pressure |
| | 1 | 4 | 5 | High Pressure of Sub2 Outdoor Unit (3Units) | Compressor Off by excessive increase of Sub2 Outdoor Unit High Pressure |
| | 1 | 4 | 6 | Low Pressure of Sub2 Outdoor Unit (3Units) | Compressor Off by excessive reduction of Sub2 Outdoor Unit Low Pressure |
| | 1 | 4 | 7 | Short voltage/excess voltage of Sub1 Outdoor Unit | Input voltage of Sub1 Outdoor Unit is more than 487V or less than 270V |
| | 1 | 4 | 8 | Voltage sensor of Sub1 Outdoor Unit | Open or short of outdoor voltage sensor of Sub1 Outdoor Unit |
| | 1 | 4 | 9 | Short voltage/excess voltage of Sub2 Outdoor Unit (3Units) | Input voltage of Sub2 Outdoor Unit is more than 487V or less than 270V |
| | 1 | 5 | 0 | Voltage sensor of Sub2 Outdoor Unit (3Units) | Open or short of outdoor voltage sensor of Sub2 Outdoor Unit |
| | 1 | 5 | 1 | Failure of operation mode conversion | Pressure unbalance between Outdoor Units |

■ Please refer to trouble shooting guide in service manual for each error title



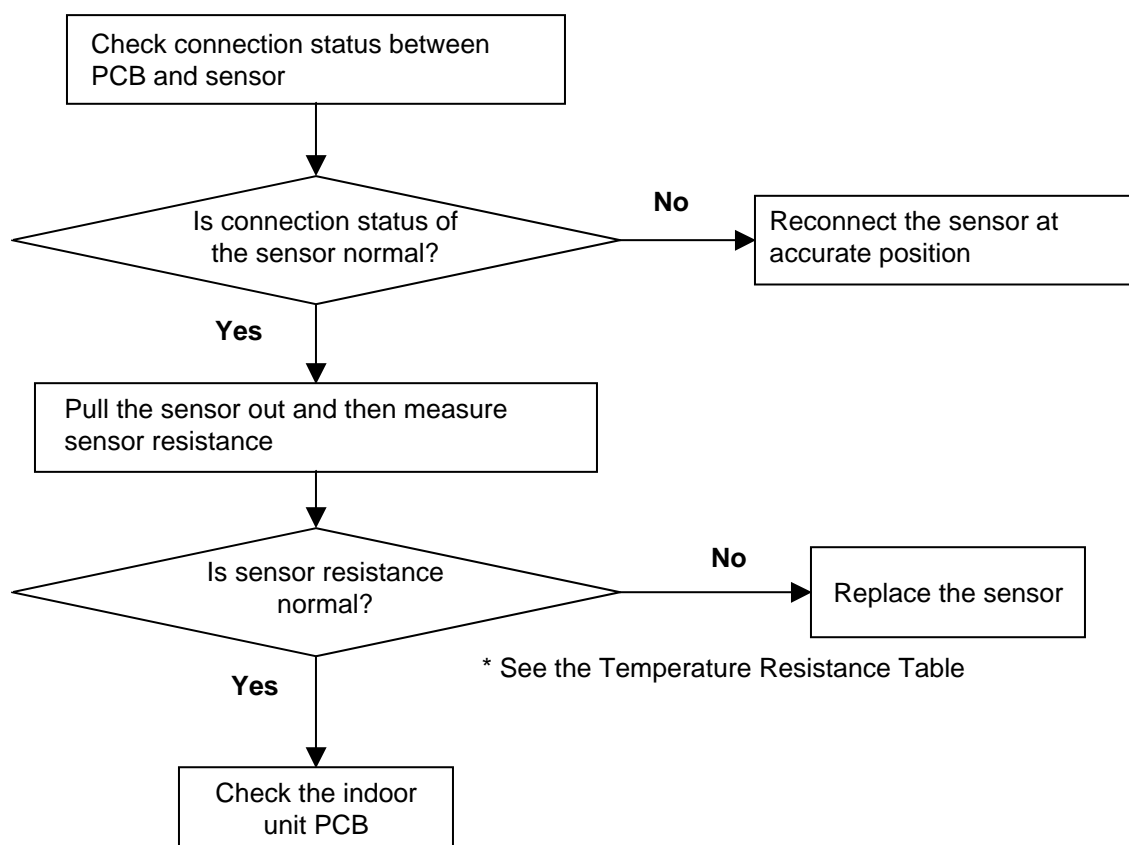
CAUTION

In case that the control box is opened and before checking electrical parts, it should be checked that the LED 01Y (Refer to next page) turned off (wait 3 minutes after main power OFF), otherwise, it may cause electrical shock.

Fault diagnosis and Trouble shooting guide

| Error Display No. | Error Item | Meaning | Major Error Occurrence Cause |
|-------------------|---|-------------------------------------|---|
| 01 | Air temperature sensor of the indoor unit | Short or open of indoor unit sensor | <ul style="list-style-type: none"> • Poor sensor connection • Short or open of sensor • Defective indoor PCB |
| 02 | Inlet pipe temperature sensor of the indoor unit | | |
| 06 | Outlet pipe temperature sensor of the indoor unit | | |

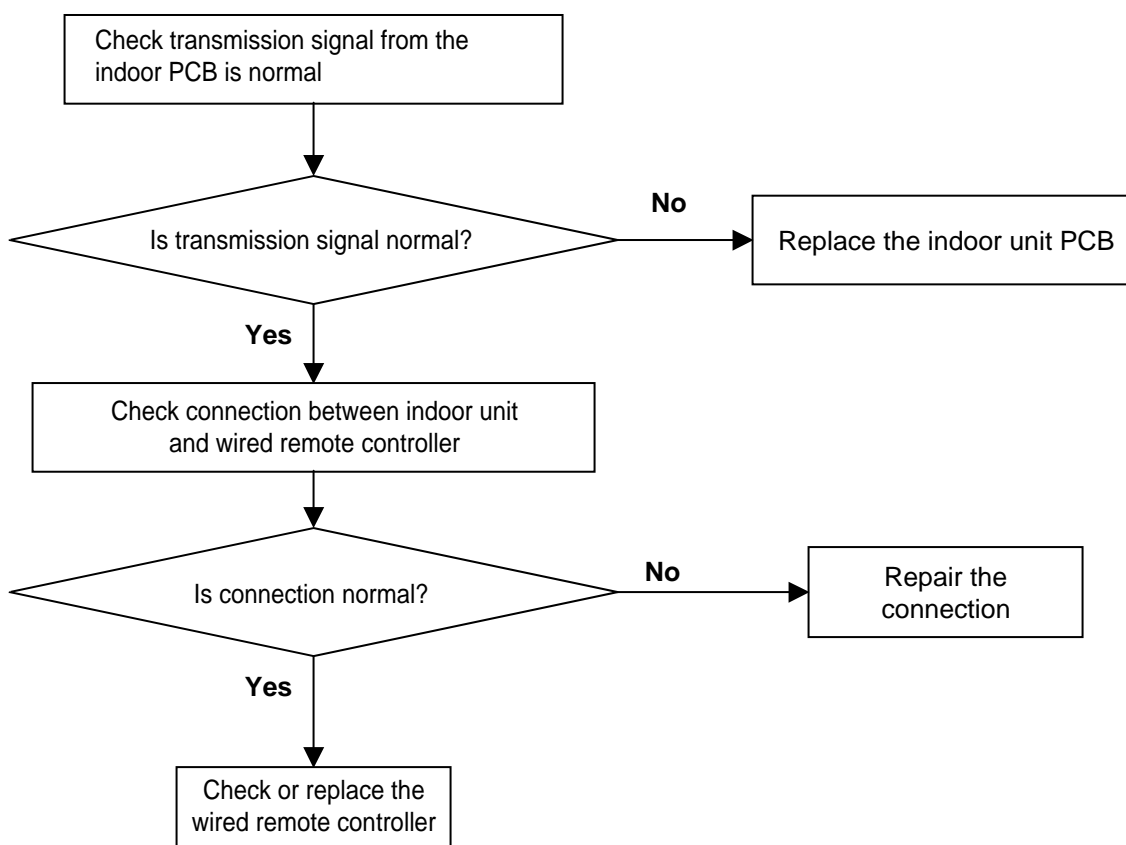
Failure Checking Method



Fault diagnosis and Trouble shooting guide

| Error Display No. | Error Item | Meaning | Major Error Occurrence Cause |
|-------------------|---|--|---|
| 03 | Communication error between wired remote controller and indoor unit | If failing to receive wired remote control signal at the indoor unit | <ul style="list-style-type: none"> • Defective wired remote control • Defective indoor unit PCB • Poor connection, contact |

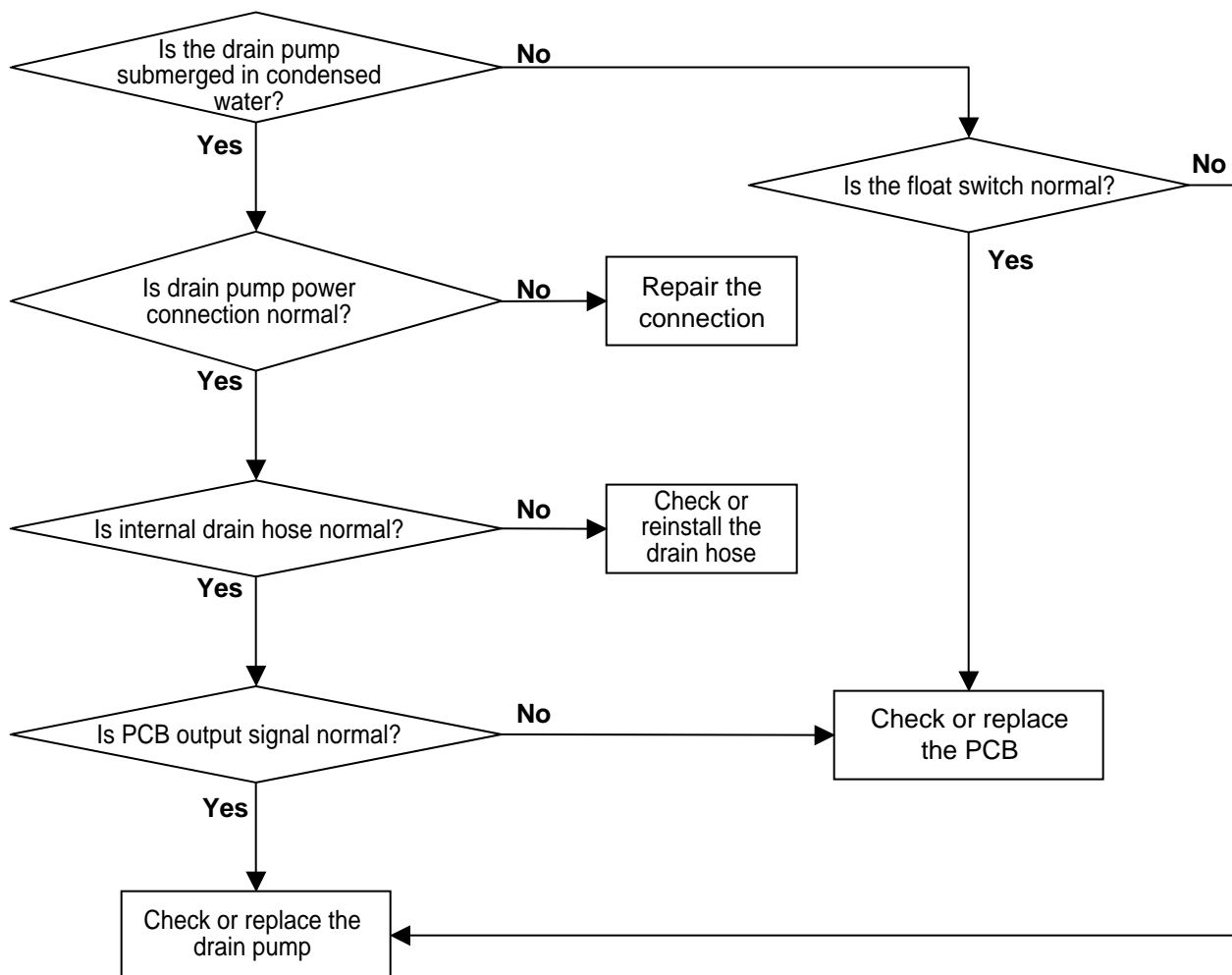
Failure Checking Method



Fault diagnosis and Trouble shooting guide

| Error Display No. | Error Item | Meaning | Major Error Occurrence Cause |
|-------------------|------------------|---|---|
| 04 | Drain pump error | The float switch opens since drain of condensed water is not done | <ul style="list-style-type: none"> • Malfunction of floater switch of the drain pump • Malfunction of the drain pump • Defective indoor unit PCB |

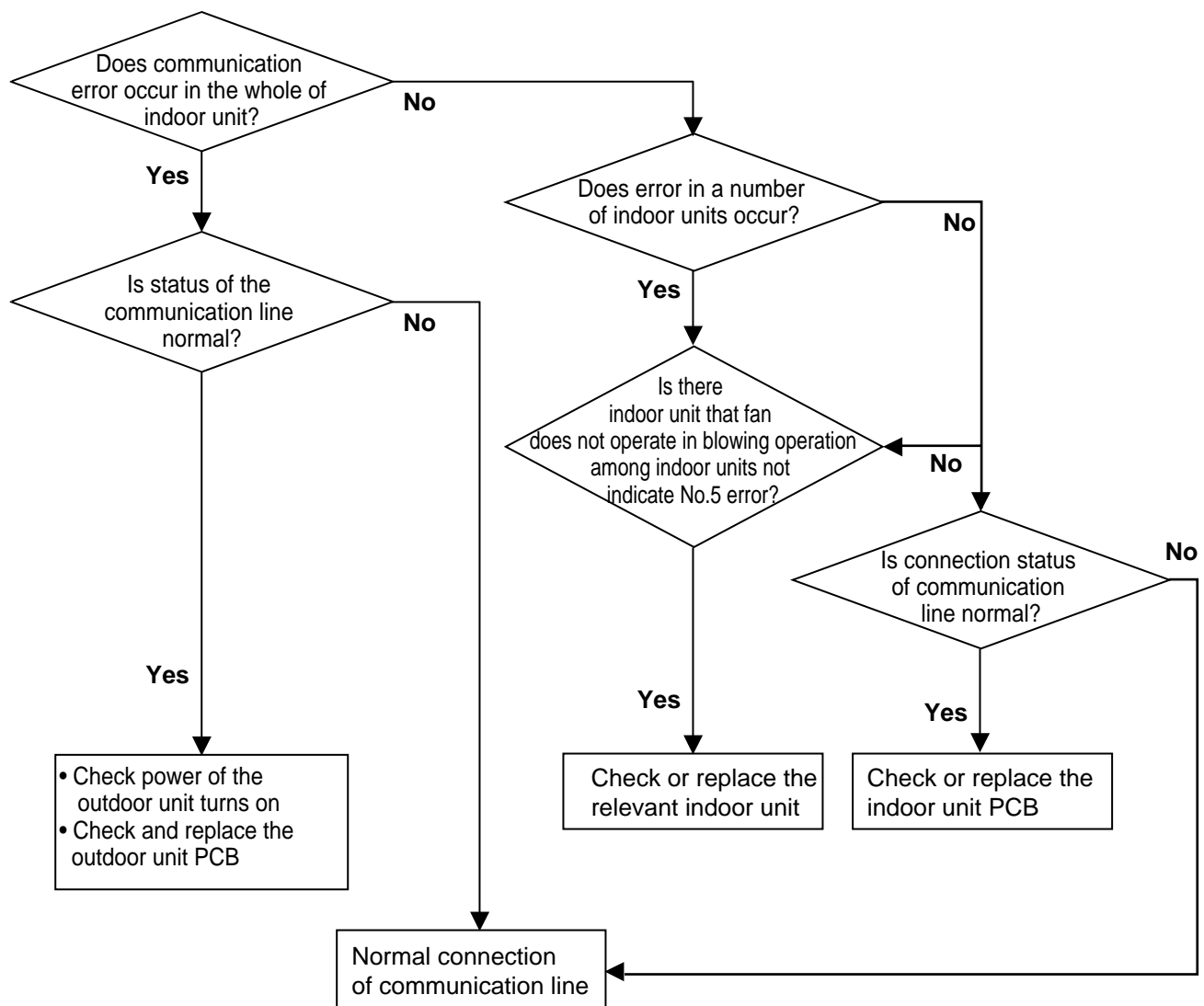
Failure Checking Method



Fault diagnosis and Trouble shooting guide

| Error Display No. | Error Item | Meaning | Major Error Occurrence Cause |
|-------------------|--|--|--|
| 05 | Communication error between outdoor unit and indoor unit | If failing to receive outdoor unit signal at the indoor unit for consecutive 3 minutes | <ul style="list-style-type: none"> • Where connection of communication line is not done • Where communication line is short • Failure of communication circuits of indoor unit • Failure of communication circuits of outdoor unit • Where distance between power line and communication line is not sufficient |

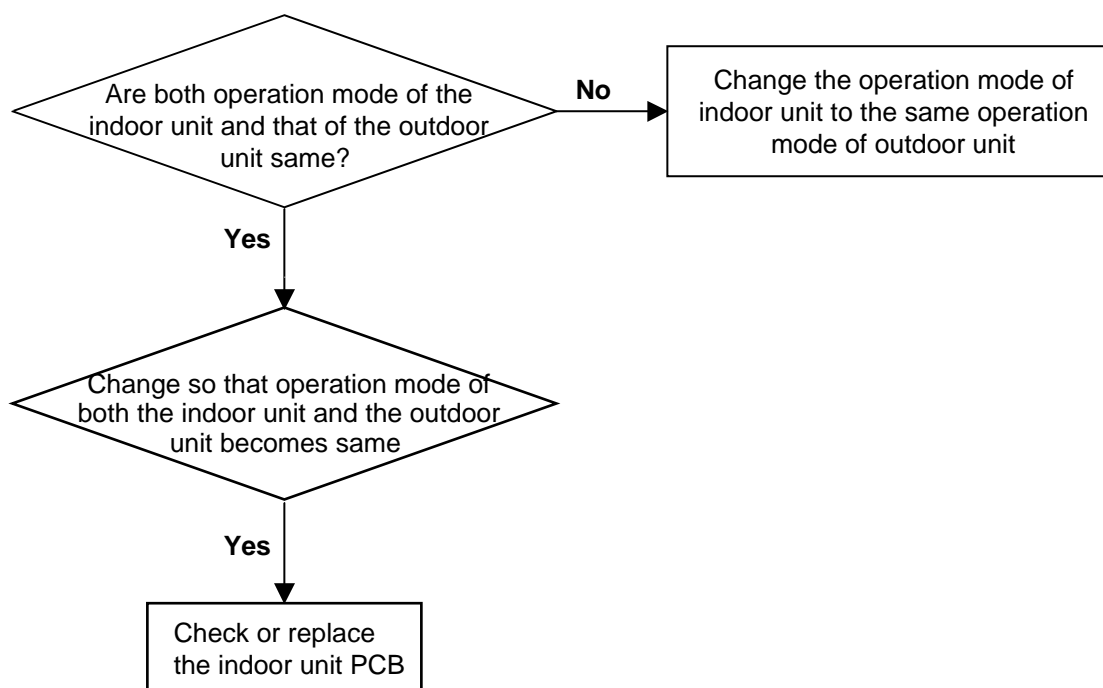
Failure Checking Method



Fault diagnosis and Trouble shooting guide

| Error Display No. | Error Item | Meaning | Major Error Occurrence Cause |
|-------------------|---|--|---|
| 07 | Different operation mode between indoor units | Where operating in different operation mode from previously operated indoor unit | This error occurs if an indoor unit which is off state is to operate in heating mode when one or more indoor units are operated in cooling mode and vice versa. |

Failure Checking Method



| Error Display No. | Error Item | Meaning | Major Error Occurrence Cause |
|-------------------|--------------------------|---|--|
| 09 | Indoor unit EEPROM error | Problems occur at EEPROM within the indoor unit's main PCB assembly | <ul style="list-style-type: none"> • Occurrence of poor communication between MICOM and EEPROM on the indoor unit main PCB assembly. • Occurrence when no serial No. data exist within EEPROM. |

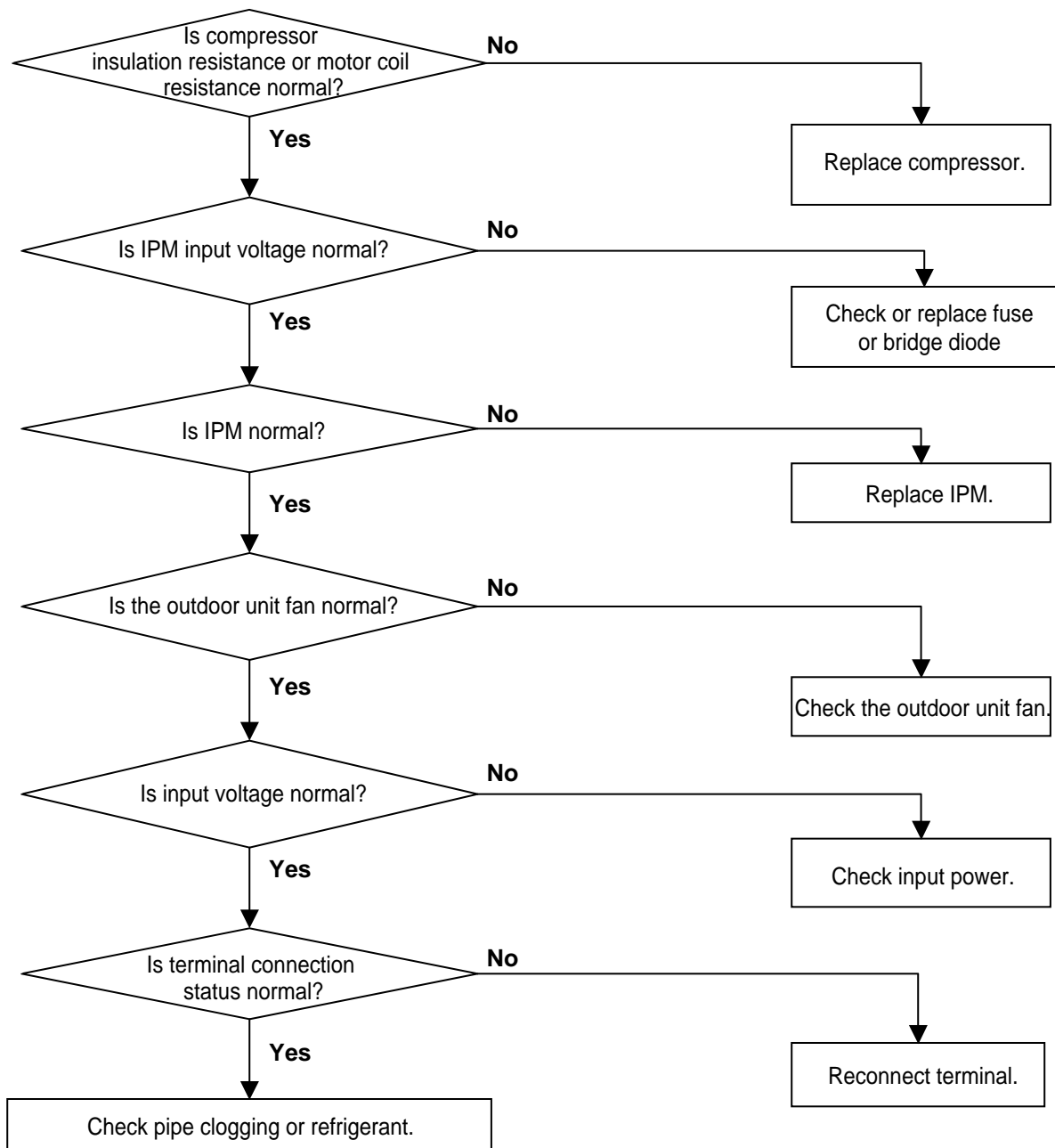
Failure Checking Method

Check and replace the indoor unit PCB.

Fault diagnosis and Trouble shooting guide

| Error Display No. | Error Item | Meaning | Major Error Occurrence Cause |
|-------------------|--|--|---|
| 21 | Occurrence of excessive current in inverter compressor | Poor inverter compressor, poor drive of inverter element (IPM) | <ul style="list-style-type: none"> Excessive current flows in compressor power supply (U, V, W) Excessive heat of IPM Excessive charge of refrigerant Insulation breaking of compressor Low input voltage Pulled out or loose of inverter compressor terminal |

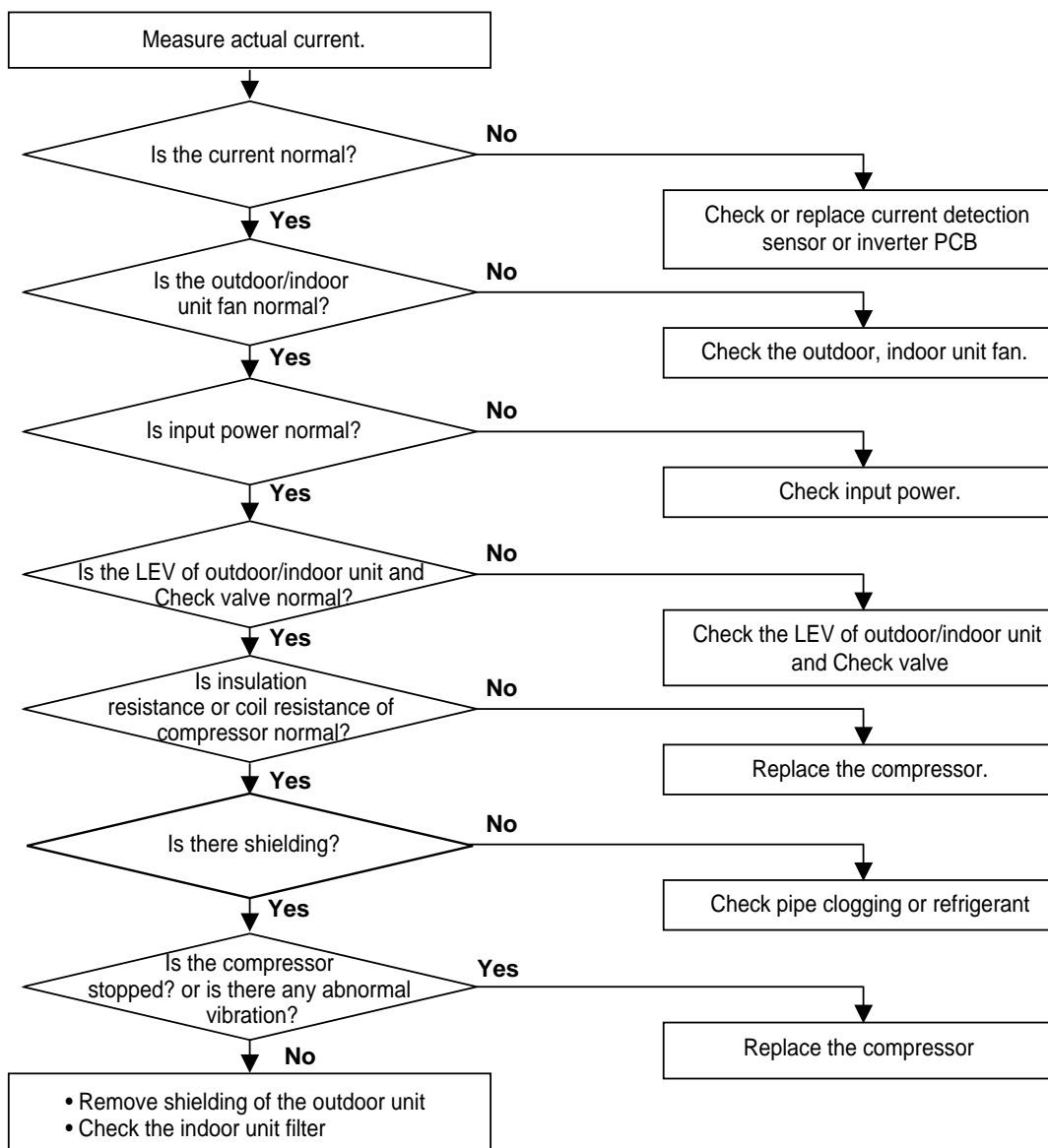
Failure Checking Method



Fault diagnosis and Trouble shooting guide

| Error Display No. | Error Item | Meaning | Major Error Occurrence Cause |
|-------------------|--|---------------------------------------|--|
| 22 | Maximum over current (MAX CT) or minimum current | Over current or minimum current flows | <ul style="list-style-type: none"> • Pulled out or loose of inverter compressor terminal • Defective compressor • Clogging of pipe • Defective current detection sensor • Low/high input voltage • Failure of outdoor/indoor fan • Excessive charge of refrigerant • Failure of outdoor/indoor LEV/Check Valve • Shielded (Outdoor unit shielded on cooling mode/ Indoor unit filter clogged on heating mode) |

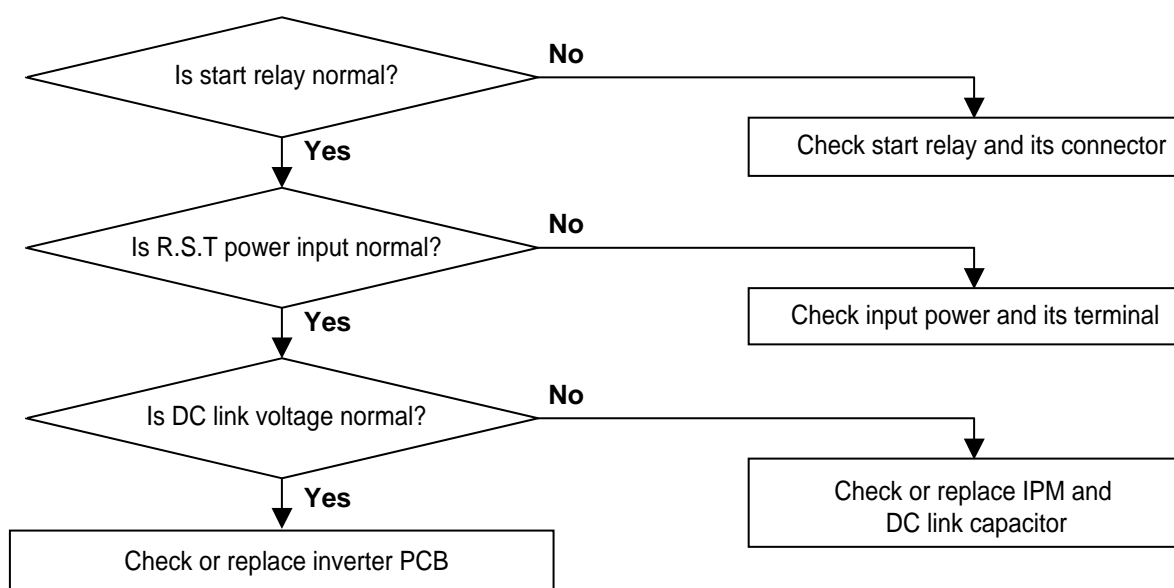
Failure Checking Method



Fault diagnosis and Trouble shooting guide

| Error Display No. | Error Item | Meaning | Major Error Occurrence Cause |
|-------------------|---|---|---|
| 23 | DC link voltage for inverter compressor drive | DC link voltage is not charged after relay on | <ul style="list-style-type: none"> • Loose DC link terminal • Defective start relay • Defective capacitor • Abnormal power input • Defective IPM • Failure of voltage detection circuit |

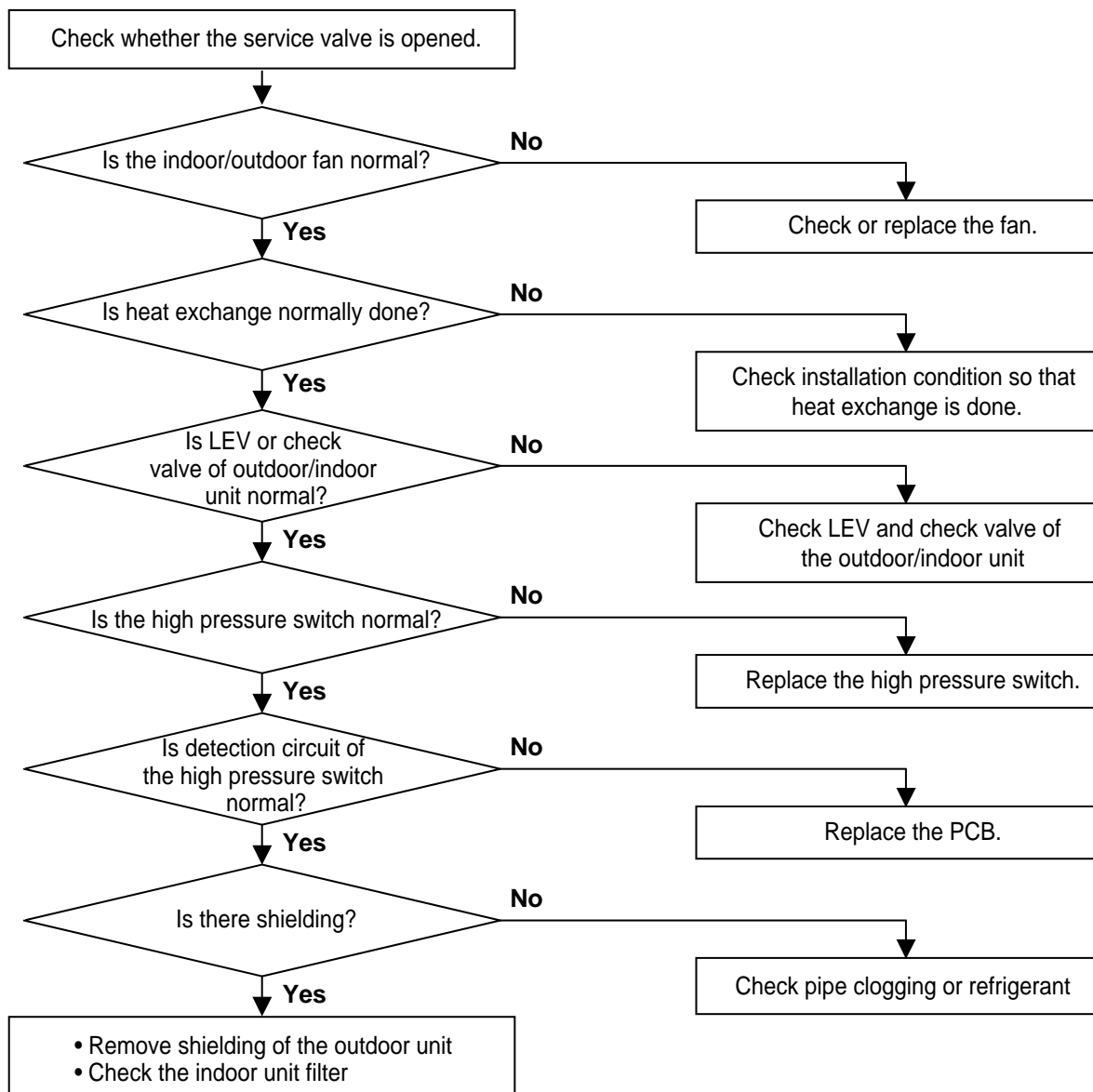
Failure Checking Method



Fault diagnosis and Trouble shooting guide

| Error Display No. | Error Item | Meaning | Major Error Occurrence Cause |
|---------------------------------------|--------------------------------------|--|--|
| 24 109 140 | High pressure switch of outdoor unit | Compressor stops by high pressure switch of outdoor unit | <ul style="list-style-type: none"> • Failure of high pressure switch • Check outdoor fan and shielding of heat exchanger on cooling mode • Check indoor fan and shielding of heat exchanger on heating mode • Clogging of compressor check valve • Pipe size reduction by damage of refrigerant pipe • Pulled out of indoor/outdoor LEV terminal • Excessive filling of refrigerant • Poor vacuum work • Check communication lines of indoor units. • Check LEV connection of indoor unit PCB. |

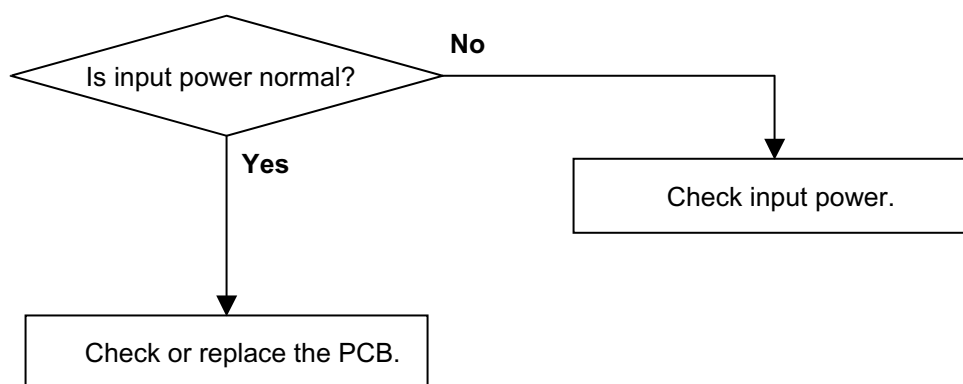
Failure Checking Method



Fault diagnosis and Trouble shooting guide

| Error Display No. | Error Item | Meaning | Major Error Occurrence Cause |
|---------------------------------------|--------------------------|---|--|
| 25 147 149 | Low voltage/high voltage | Input voltage is More than 487V or less than 270V | <ul style="list-style-type: none">• Abnormal input power• Defective voltage detection circuit |

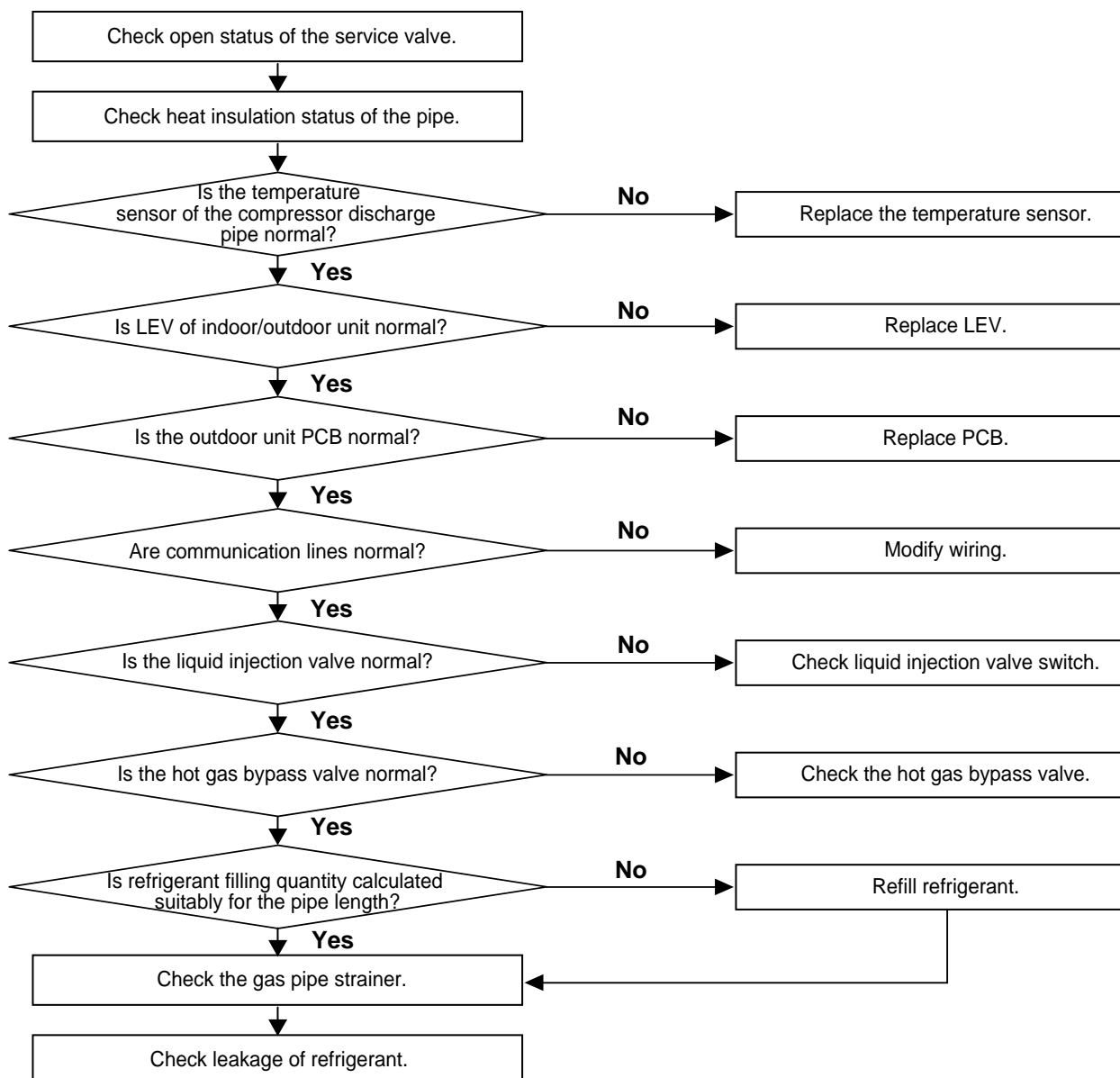
Trouble shooting Flow



Fault diagnosis and Trouble shooting guide

| Error Display No. | Error Item | Meaning | Major Error Occurrence Cause |
|--|--|--|---|
| 32 33 100 101 102 103 | 32: Discharge temperature of main outdoor unit inverter compressor 33: Discharge temperature of main outdoor unit constant speed compressor 100: Discharge temperature of Sub1 outdoor unit No.1 constant speed compressor 101: Discharge temperature of Sub1 outdoor unit No.2 constant speed compressor 102: Discharge temperature of Sub2 outdoor unit No.1 constant speed compressor 103: Discharge temperature of Sub2 outdoor unit No.2 constant speed compressor | Compressor stops by high discharge temperature of compressor | <ul style="list-style-type: none"> • Defective temperature sensor of compressor discharge pipe • Insufficient refrigerant • Failure of LEV • Failure of liquid injection valve • Leakage of hot gas bypass valve • Insufficient open of liquid pipe service valve on heating mode • Poor heat insulation of pipe on heating mode |

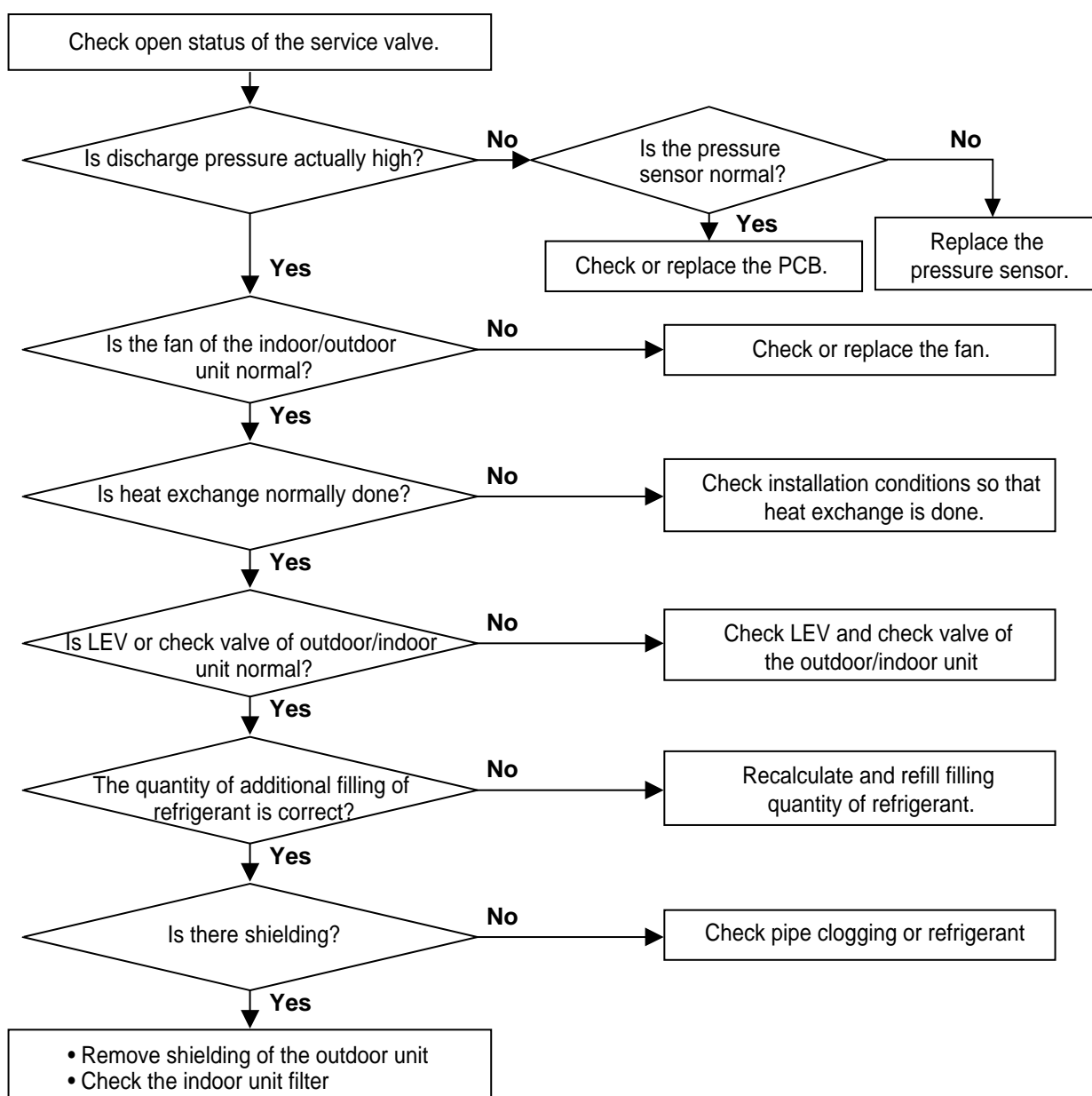
Failure Checking Method



Fault diagnosis and Trouble shooting guide

| Error Display No. | Error Item | Meaning | Major Error Occurrence Cause |
|---------------------------------------|---|---|---|
| 34 143 145 | 34: High pressure rise of main outdoor unit 143: High pressure rise of Sub1 outdoor unit 145: High pressure rise of Sub2 outdoor unit | Compressor stops by excessive rise of high pressure | <ul style="list-style-type: none"> • Failure of high pressure sensor or high pressure sensor detection circuit part • Failure of indoor/outdoor unit fan • Poor heat exchange by installation conditions, damage of heat exchanger • Clogging of discharge pipe • Excessive filling of refrigerant |

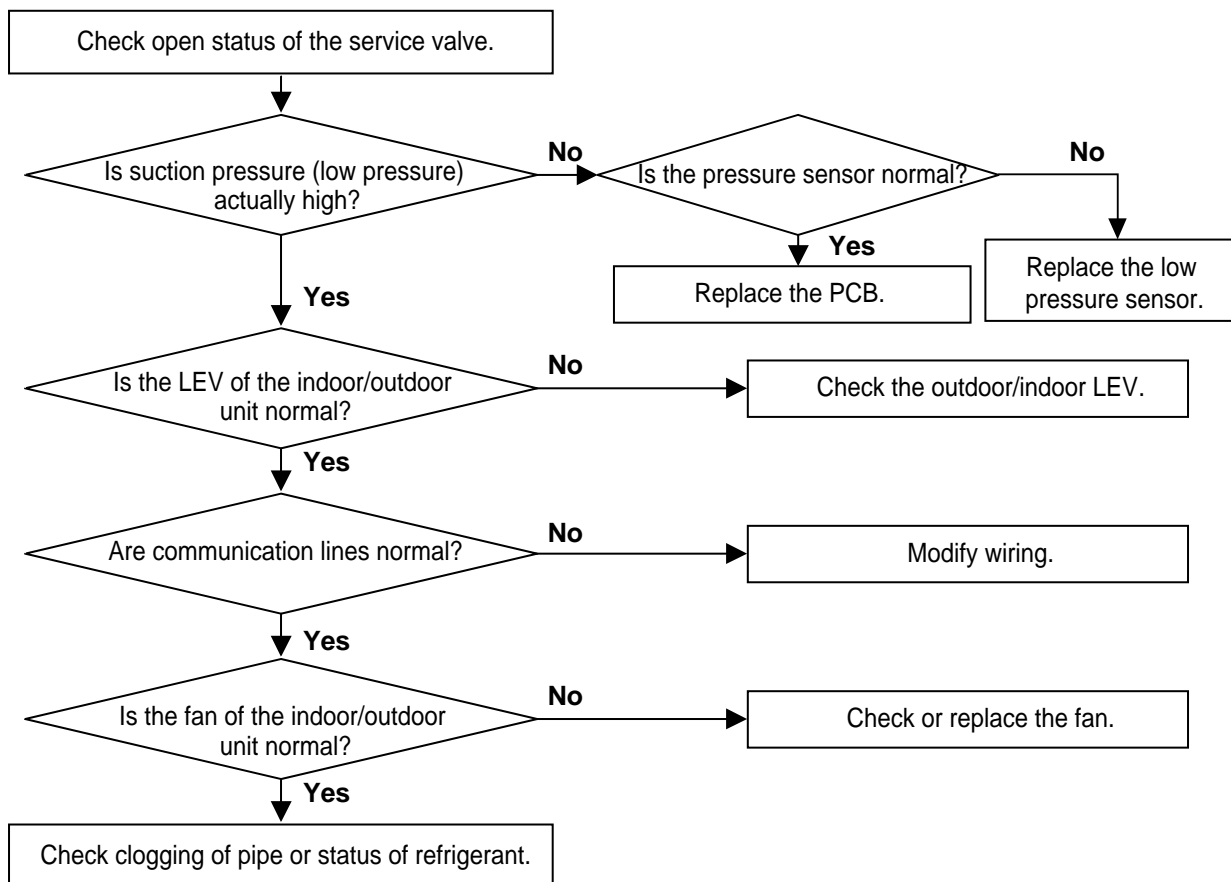
Trouble shooting Flow



Fault diagnosis and Trouble shooting guide

| Error Display No. | Error Item | Meaning | Major Error Occurrence Cause |
|---------------------------------------|--|--|--|
| 35 144 146 | 35: Low pressure drop of main outdoor unit 144: Low pressure drop of Sub1 outdoor unit 144: Low pressure drop of Sub2 outdoor unit | Compressor stops by excessive drop of low pressure | <ul style="list-style-type: none"> • Failure of low pressure sensor or low pressure sensor detection circuit part • Clogging of service valve • Insufficient refrigerant • Leakage of refrigerant • Poor indoor pipe temperature sensor • Failure of indoor/outdoor unit fan • Check communication lines of indoor units. • Check LEV connection of indoor unit PCB. |

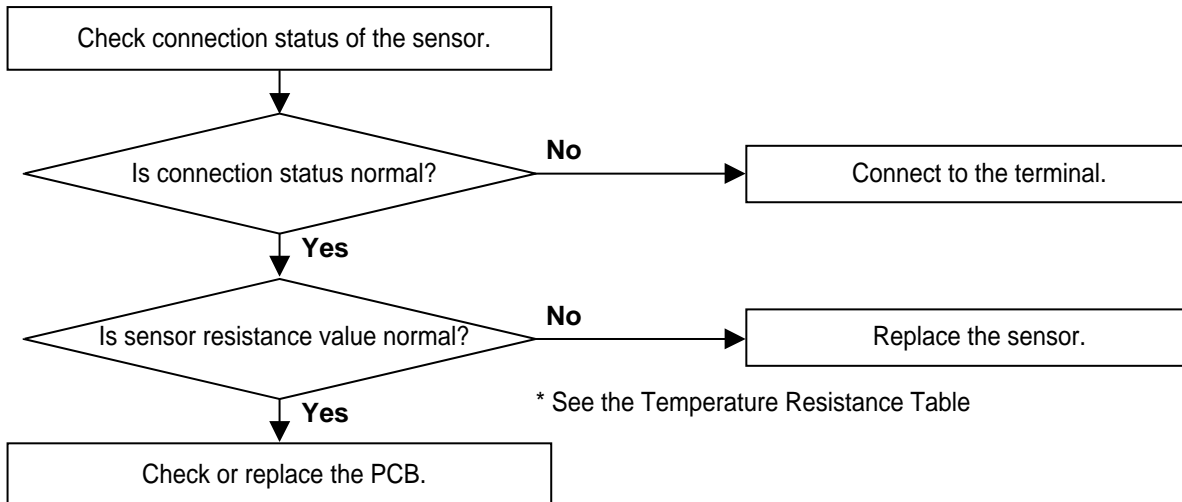
Trouble shooting Flow



Fault diagnosis and Trouble shooting guide

| Error Display No. | Error Item | Meaning | Major Error Occurrence Cause |
|--|--------------|---|---|
| 40, 41, 42, 43, 44, 45, 46, 47, 48, 65, 113, 114, 115, 116, 117, 118, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 132, 133, 134, 135, 136, 137, 138, 139, 148 | Sensor error | Abnormal measuring value of sensor (Open/Short) | <ul style="list-style-type: none"> • Defective temperature sensor (open/short) • Defective PCB. |

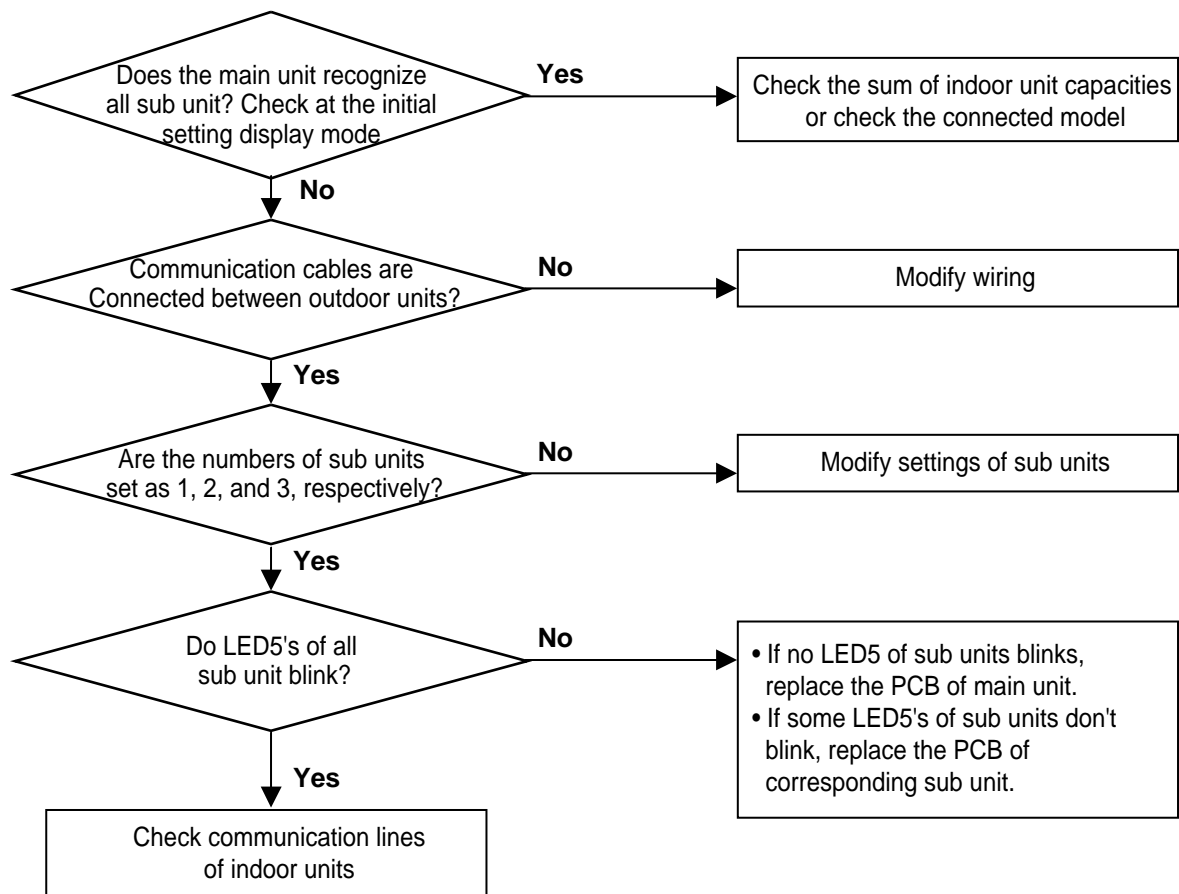
Trouble shooting Flow



Fault diagnosis and Trouble shooting guide

| Error Display No. | Error Item | Meaning | Major Error Occurrence Cause |
|-------------------|------------------------------------|---|--|
| 51 | Excessive capacity of indoor units | Excessive connection of indoor units compared to capacity of outdoor unit | <ul style="list-style-type: none"> • Excessive connection of indoor units compared to capacity of outdoor unit • Wrong setting of sub unit • Communication cables are not connected between outdoor units • Poor communication between outdoor units |

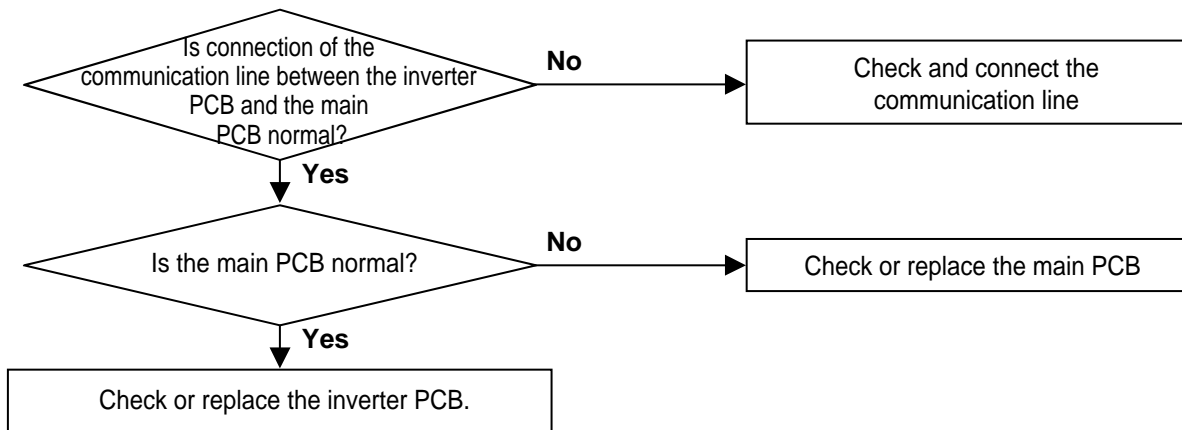
Trouble shooting Flow



Fault diagnosis and Trouble shooting guide

| Error Display No. | Error Item | Meaning | Major Error Occurrence Cause |
|-------------------|---|---|---|
| 52 | Communication error (inverter PCB - main PCB) | If failing to receive inverter signal at main PCB | <ul style="list-style-type: none"> • No connection of communication line • Short or fusing of communication line • Poor inverter PCB or main PCB |

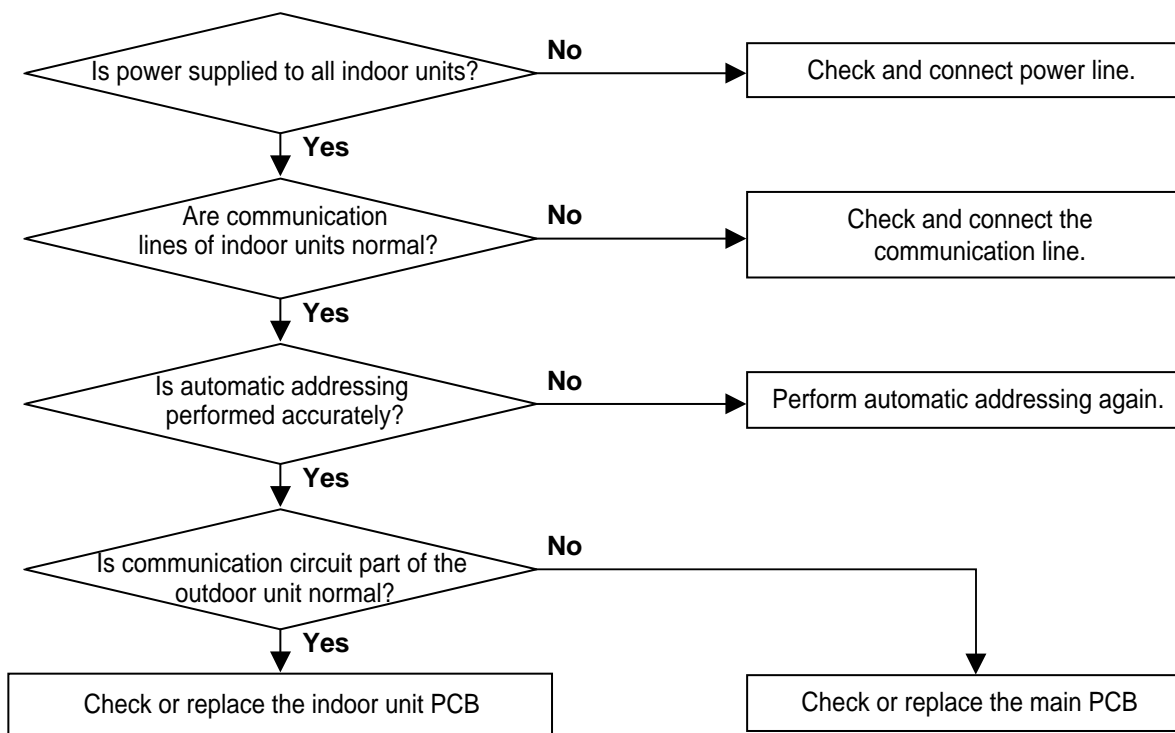
Trouble shooting Flow



Fault diagnosis and Trouble shooting guide

| Error Display No. | Error Item | Meaning | Major Error Occurrence Cause |
|-------------------|--|--|--|
| 53 | Communication error (indoor unit - main PCB) | If failing to receive indoor unit signal at main PCB | <ul style="list-style-type: none"> • No connection of communication line • Short or fusing of communication line • Poor outdoor unit PCB or indoor unit PCB |

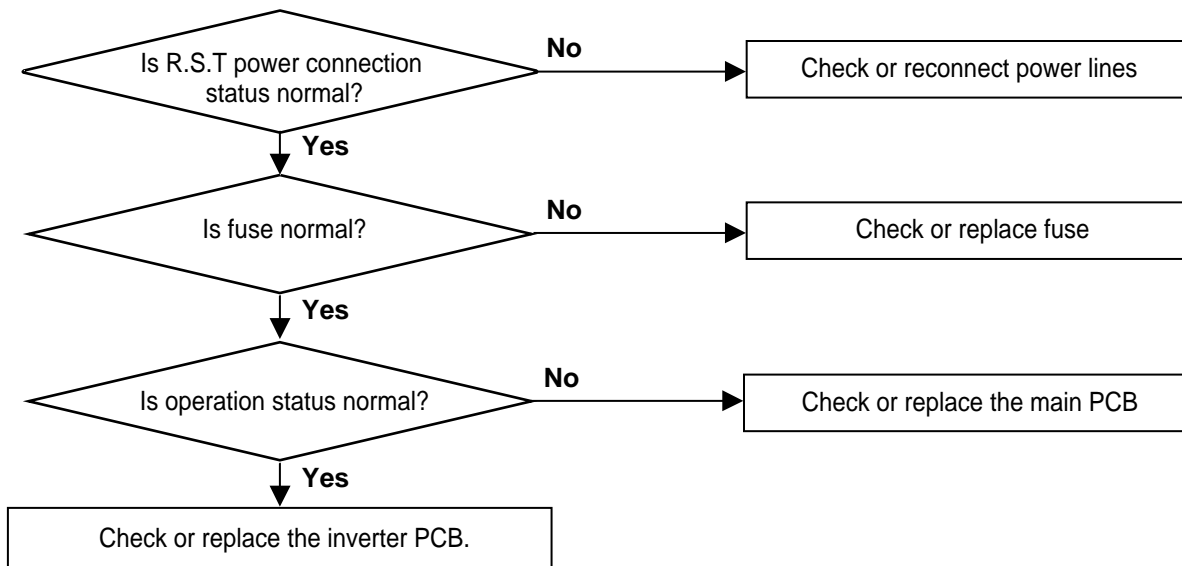
Trouble shooting Flow



Fault diagnosis and Trouble shooting guide

| Error Display No. | Error Item | Meaning | Major Error Occurrence Cause |
|---------------------------------------|---|--|---|
| 54 110 141 | 54: 3-phase wrong wiring of main outdoor unit 110: 3-phase wrong wiring of Sub1 outdoor unit 141: 3-phase wrong wiring of Sub2 outdoor unit | 3-phase wrong wiring of outdoor unit (Reverse phase/omission of phase) | <ul style="list-style-type: none"> • Abnormal inverter PCB • No connection of R, S, T power • Changed R, S, T connection order |

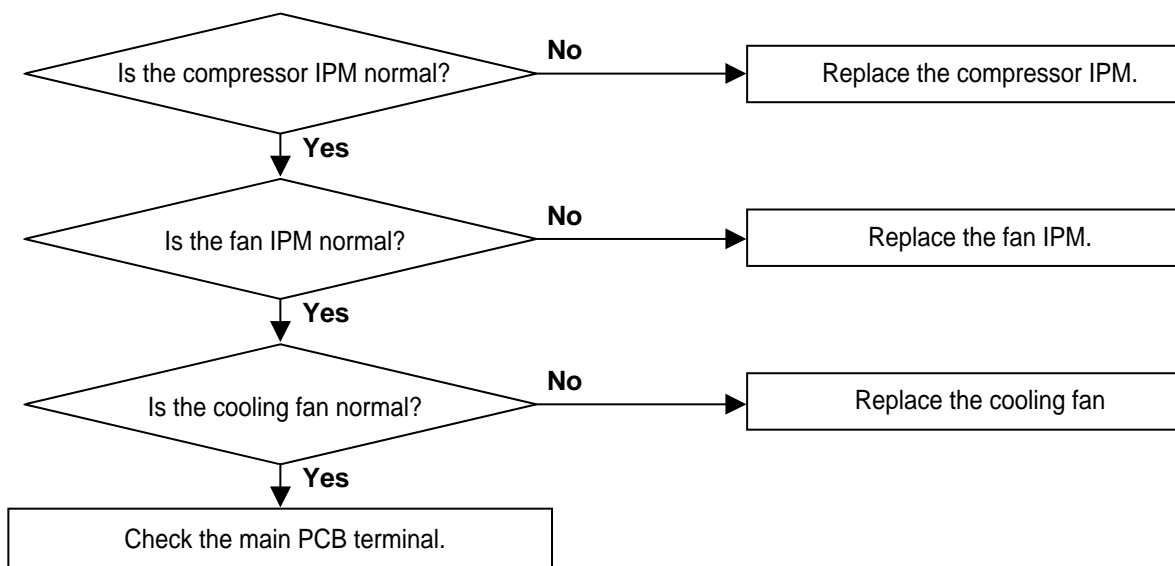
Trouble shooting Flow



Fault diagnosis and Trouble shooting guide

| Error Display No. | Error Item | Meaning | Major Error Occurrence Cause |
|-------------------|---------------------------------|-------------------------------|---|
| 62 | Heatsink of inverter compressor | Overheat of inverter heatsink | <ul style="list-style-type: none"> • Overheat of IPM • Failure of cooling fan |

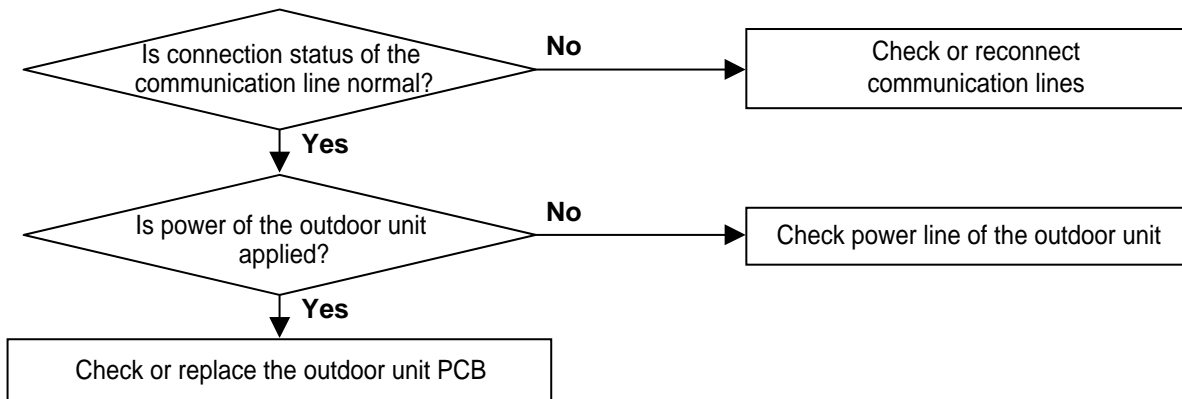
Trouble shooting Flow



Fault diagnosis and Trouble shooting guide

| Error Display No. | Error Item | Meaning | Major Error Occurrence Cause |
|--|---|--|---|
| 104 111 142 | Communication error between outdoor units | Communication error between outdoor units (main outdoor unit - sub outdoor unit) | <ul style="list-style-type: none"> • No connection of communication line • Short or fusing of communication line • Poor outdoor unit PCB • Power of outdoor unit is not applied |

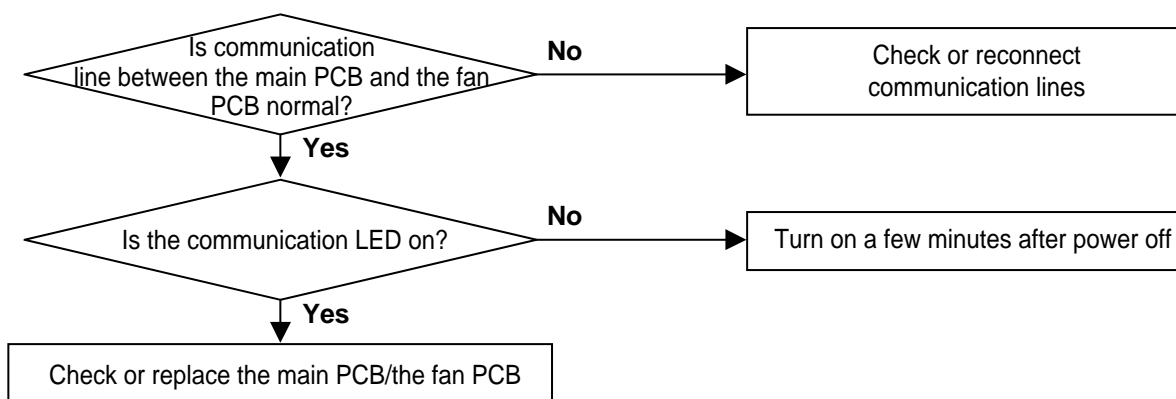
Trouble shooting Flow



Fault diagnosis and Trouble shooting guide

| Error Display No. | Error Item | Meaning | Major Error Occurrence Cause |
|--------------------|--|--|--|
| 105 108 | Communication error between main PCB and fan PCB | Communication error between main PCB and fan PCB | <ul style="list-style-type: none"> • No connection of communication line • Short or fusing of communication line • Poor outdoor unit PCB • Power input when the DC link capacitor discharges |

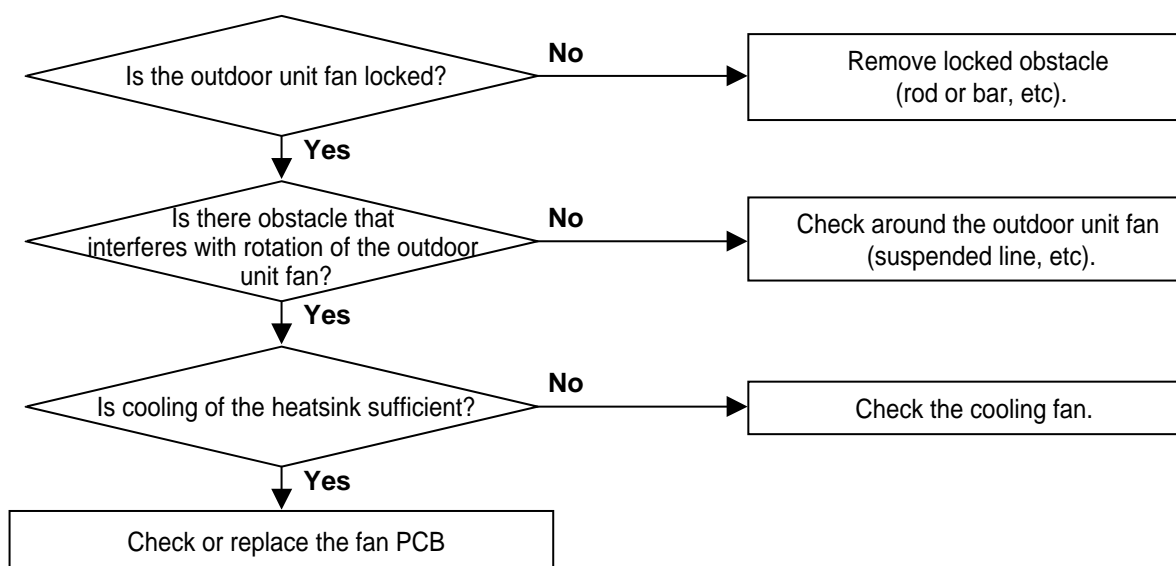
Trouble shooting Flow



Fault diagnosis and Trouble shooting guide

| Error Display No. | Error Item | Meaning | Major Error Occurrence Cause |
|-------------------|--|--|--|
| 106 | Over-current of outdoor unit fan motor (IPM fault) | Over-current of outdoor unit fan motor (IPM fault) | <ul style="list-style-type: none"> • Fan lock • RPM down due to obstacle contact with outdoor unit fan • Overheat of heatsink |

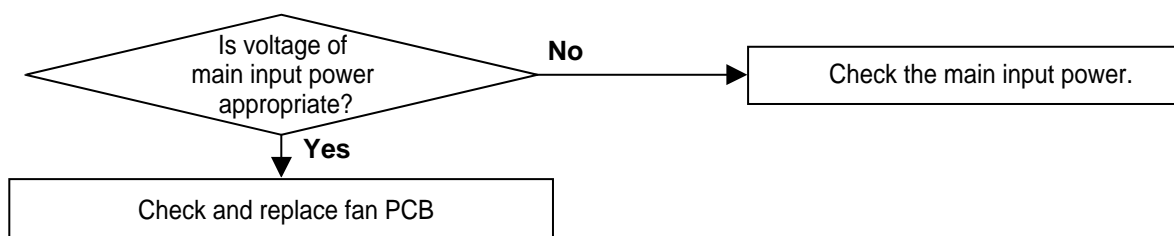
Trouble shooting Flow



Fault diagnosis and Trouble shooting guide

| Error Display No. | Error Item | Meaning | Major Error Occurrence Cause |
|-------------------|--|--|---|
| 107 | Low voltage of main outdoor unit fan motor | Low voltage of main outdoor unit fan motor | <ul style="list-style-type: none"> • Failure of capacitor for controlling fan • Error of input power of fan PCB • Failure of fan PCB |

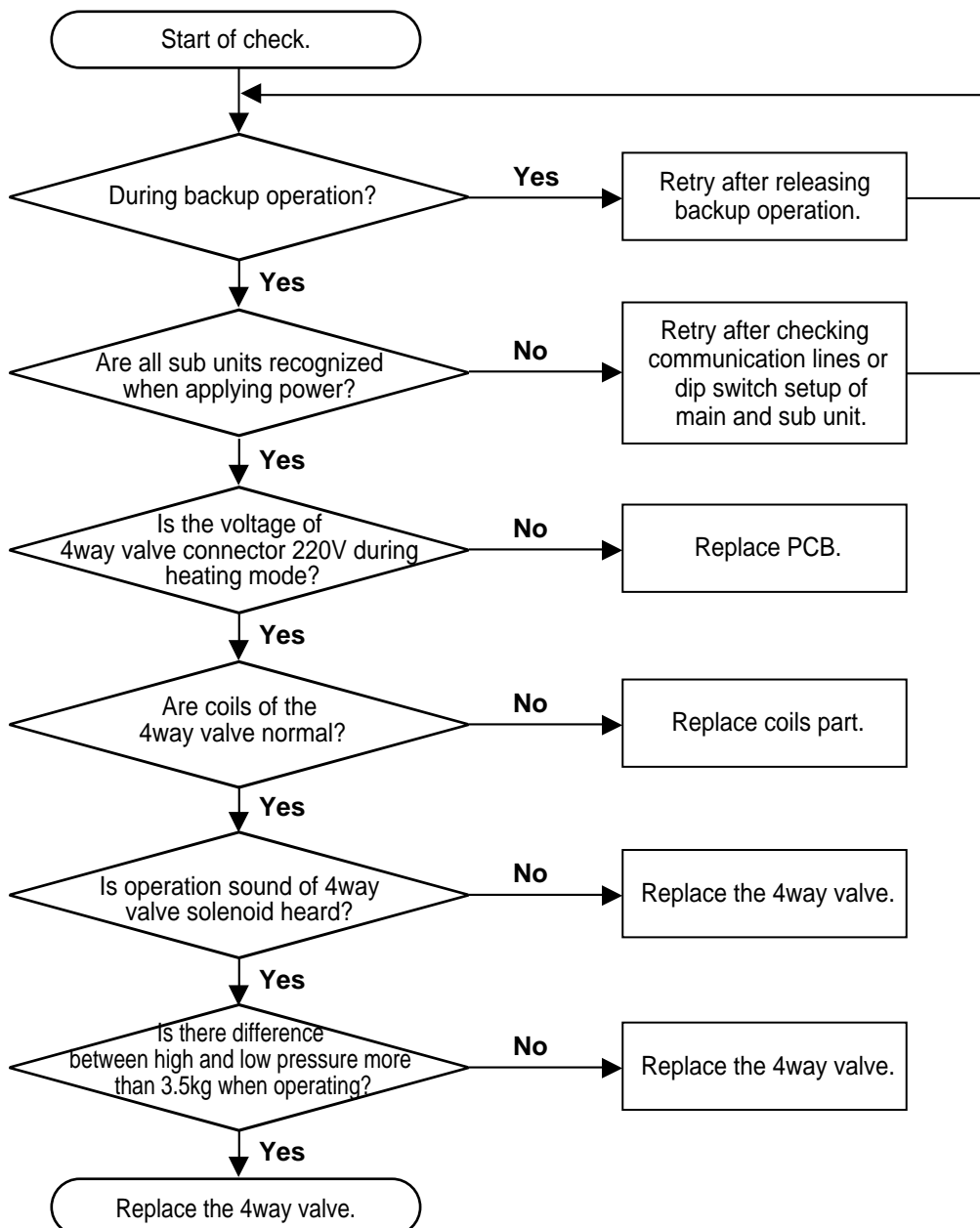
Trouble shooting Flow

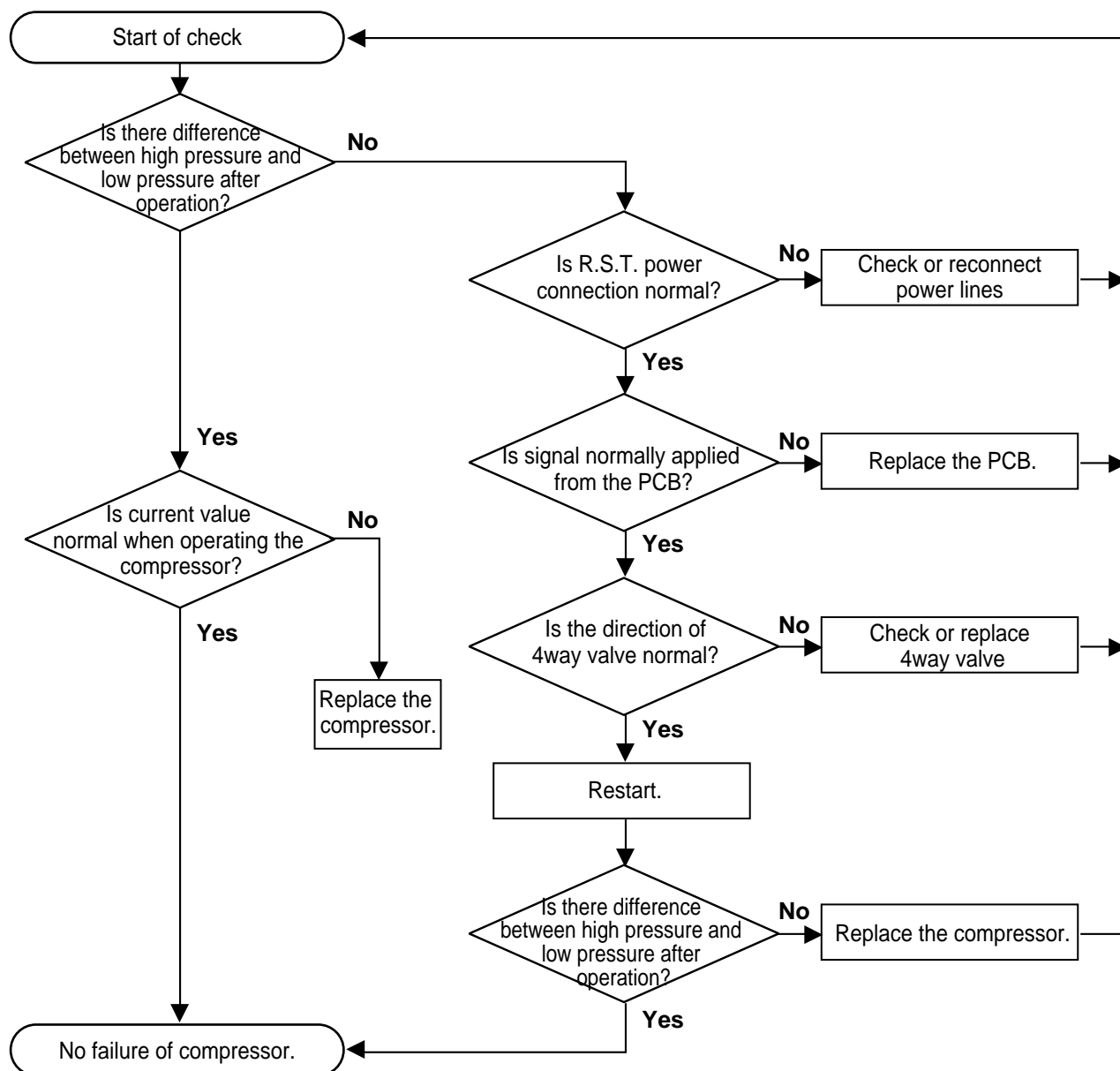


Fault diagnosis and Trouble shooting guide

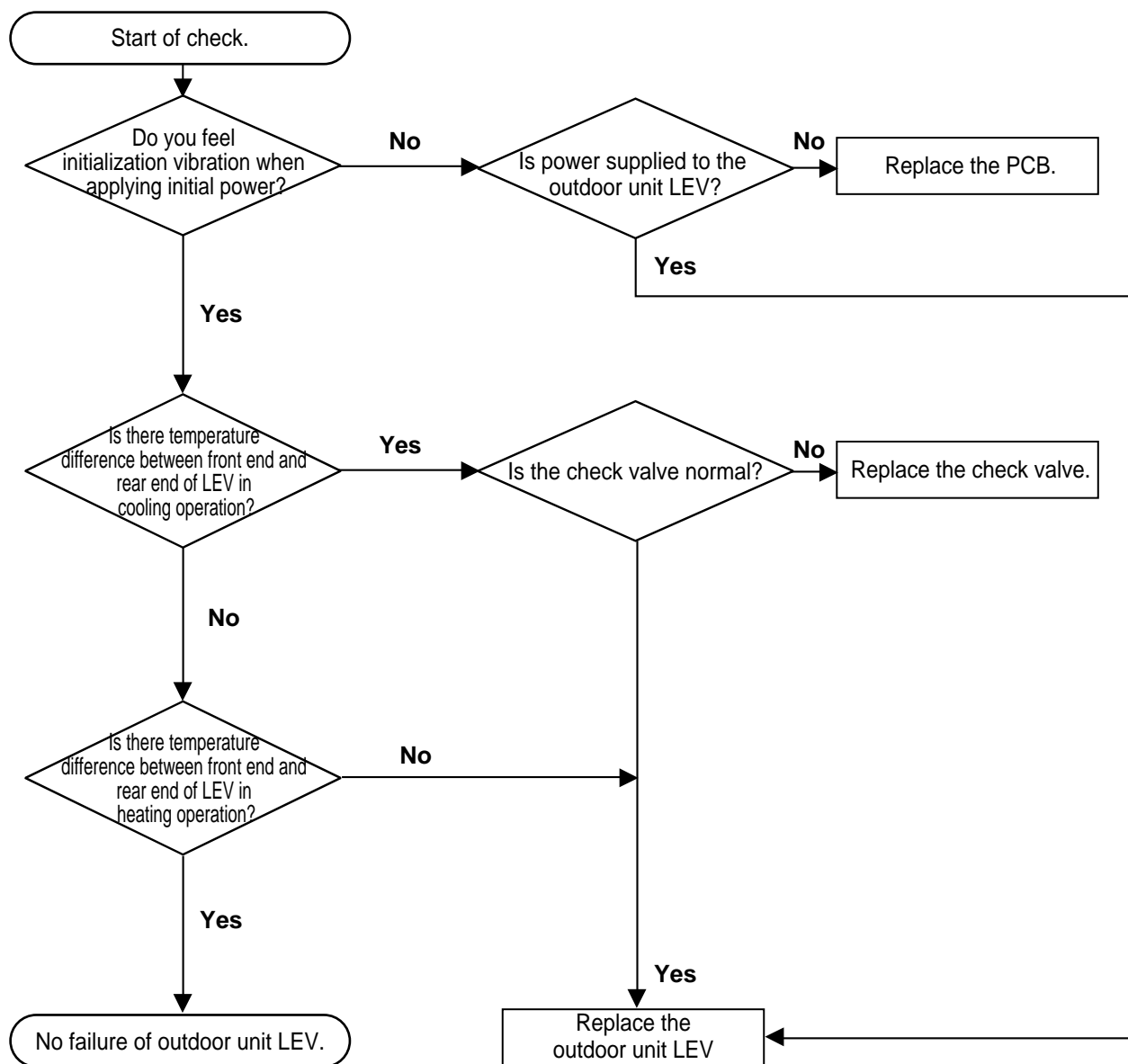
| Error Display No. | Error Item | Meaning | Major Error Occurrence Cause |
|-------------------|------------|-----------------------------------|---|
| 151 | 4way valve | Switch-over failure of 4way valve | <ul style="list-style-type: none"> • Locking of 4way valve by foreign material, aging, etc. • Poor coils • Applied voltage of PCB is poor. |

Trouble shooting Flow



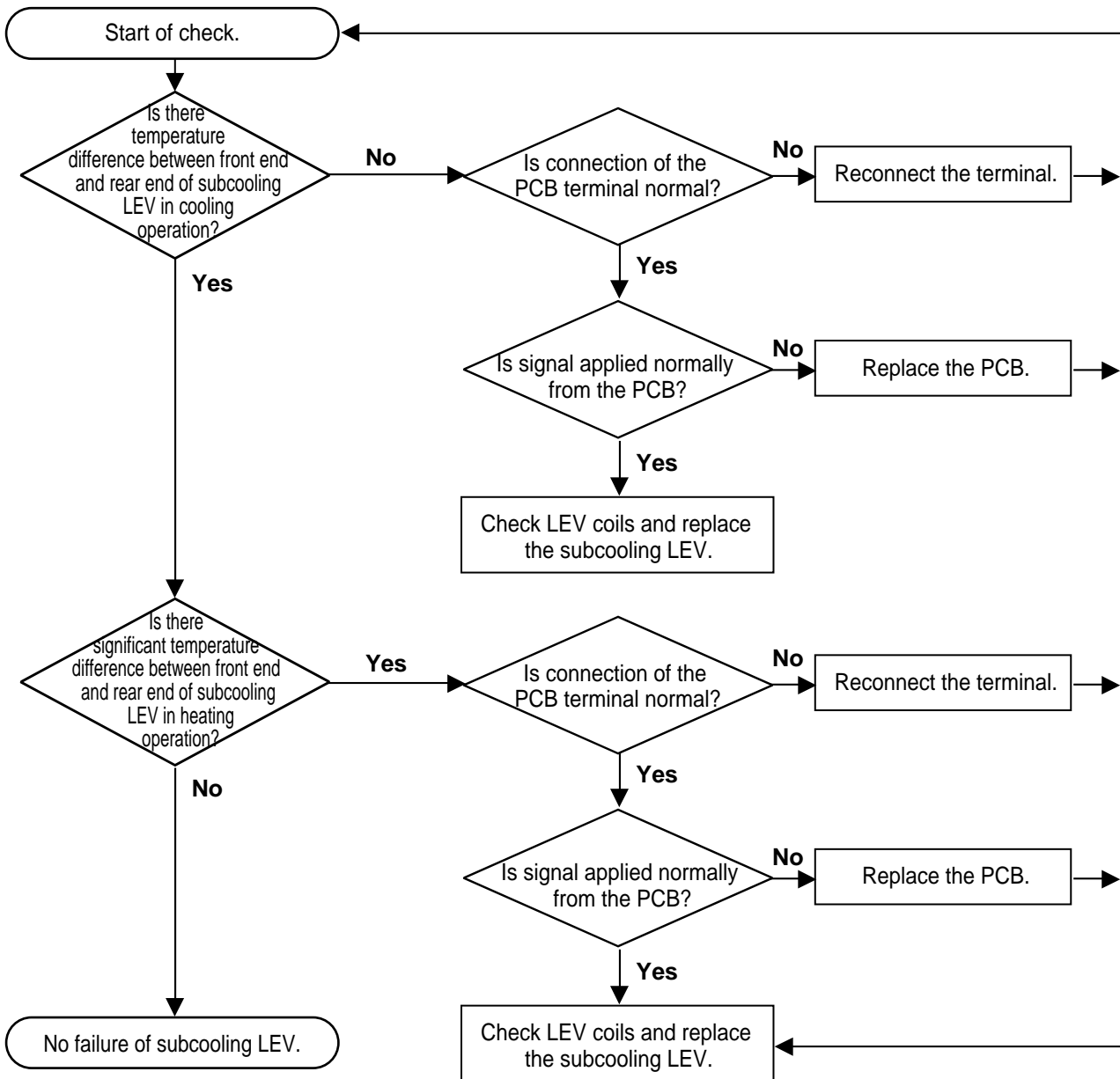
Compressor.

Outdoor Unit LEV.

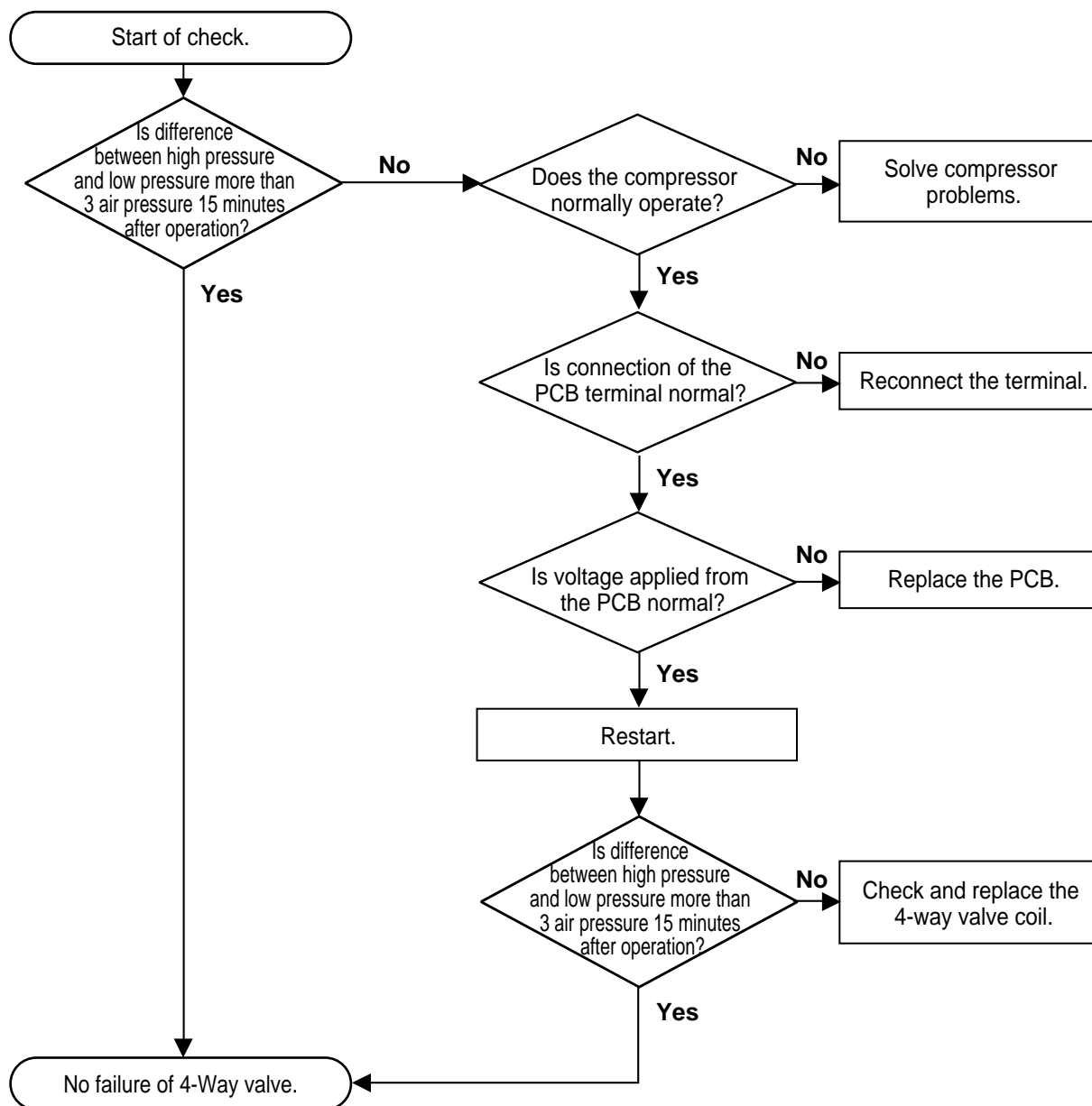


- It is difficult to separate coils and the main body for the outdoor unit LEV, and it is impossible to mount them again.

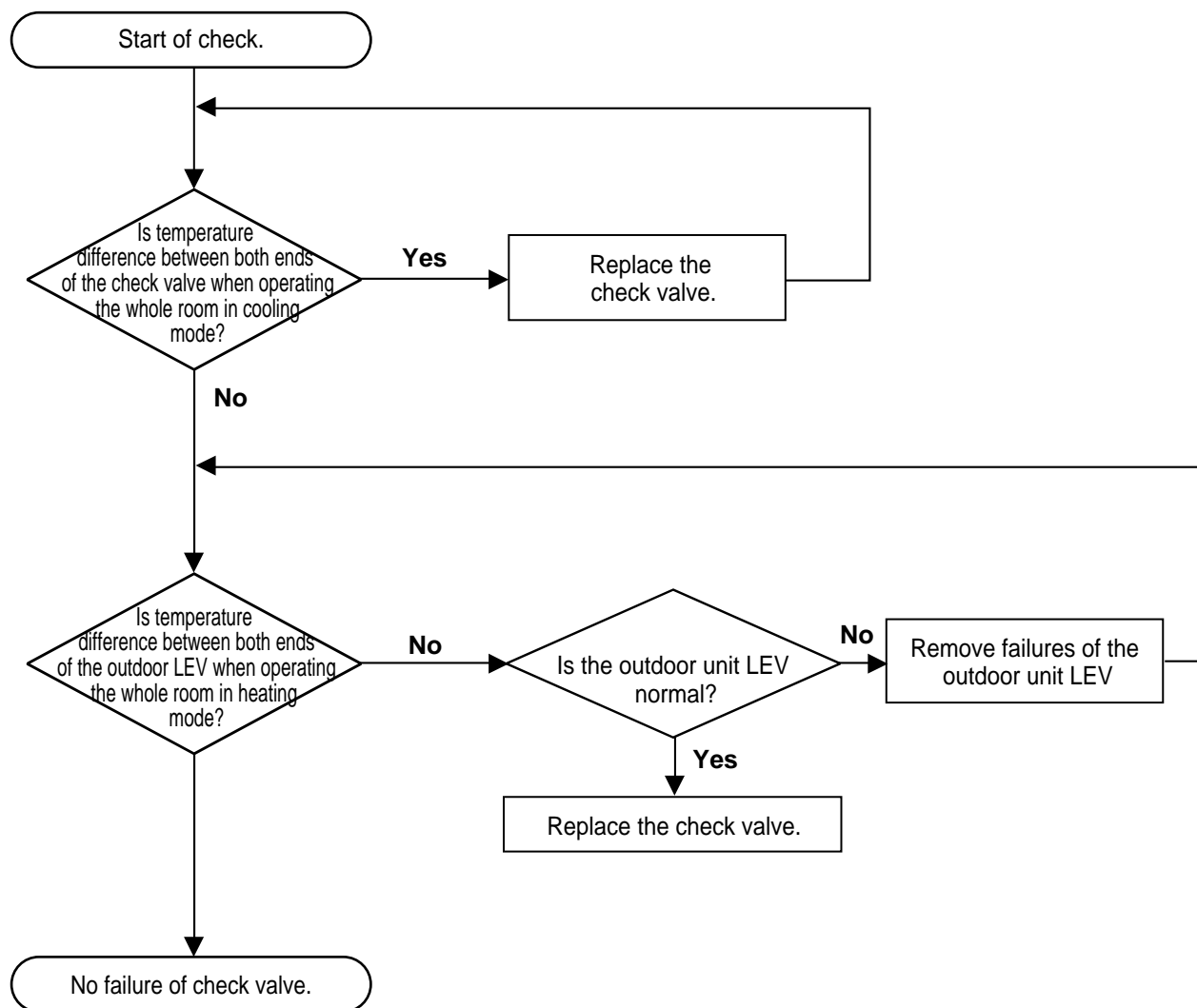
Excessive Cold LEV.



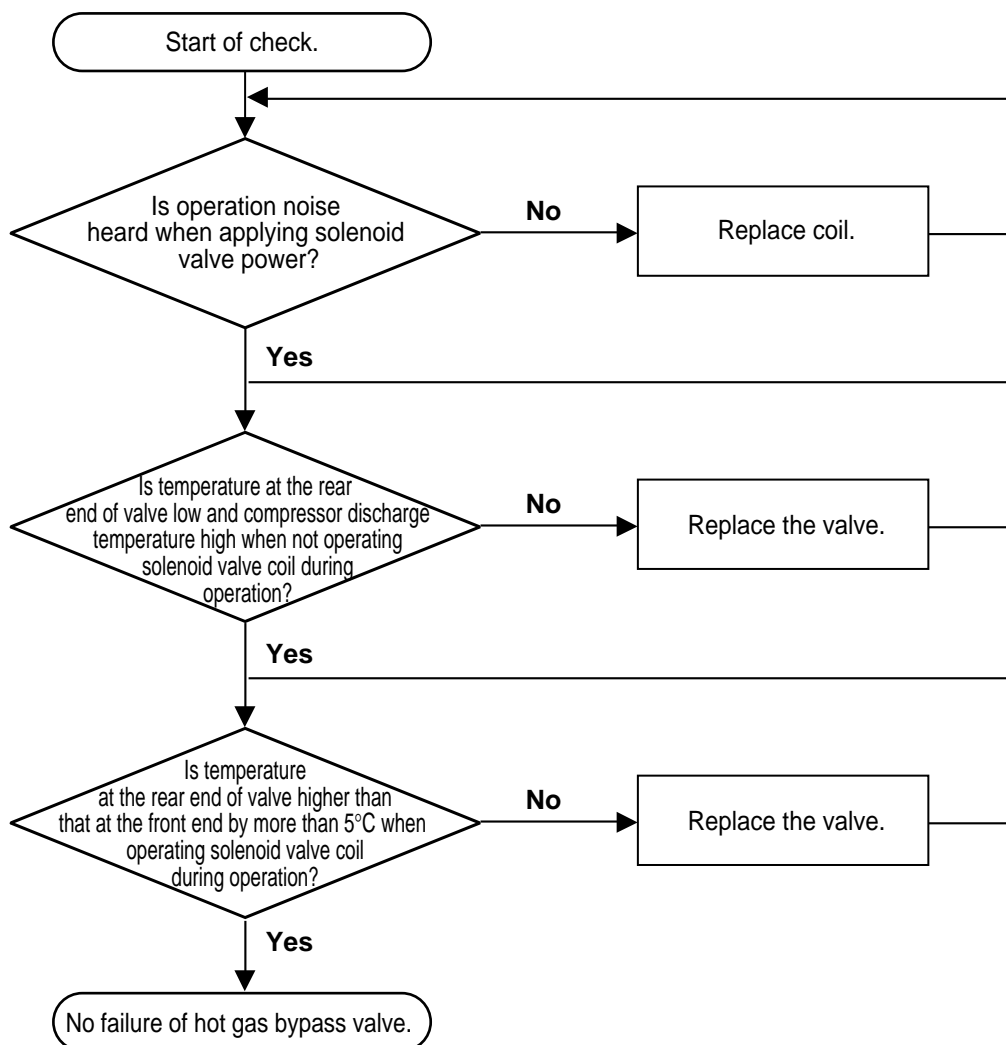
4-Way Valve



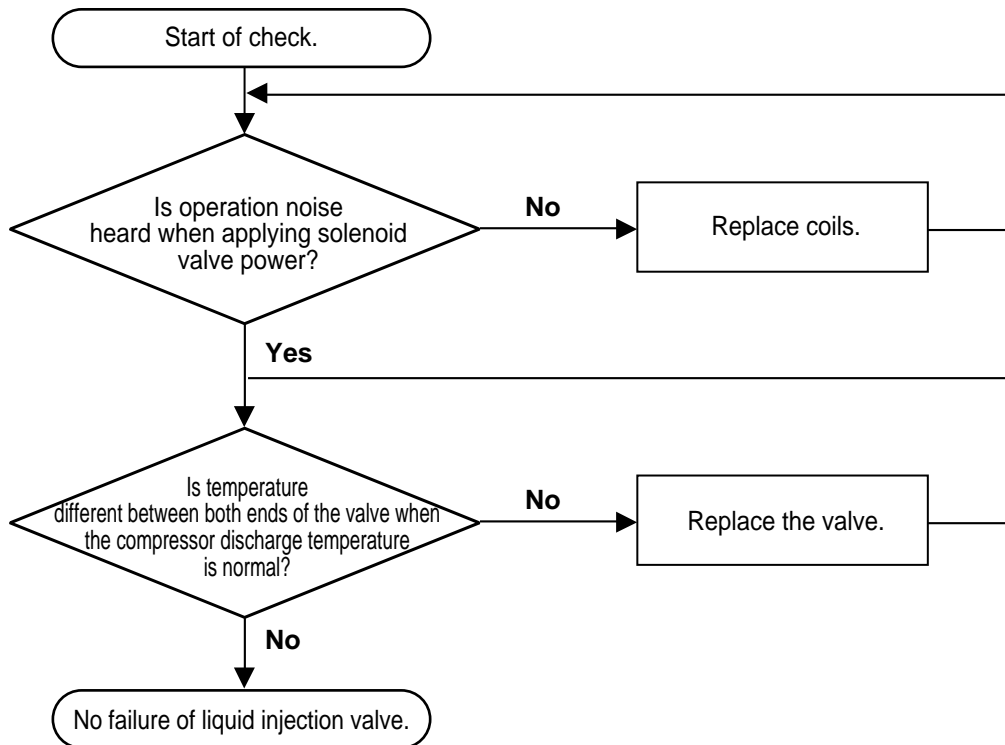
Check Valve (Parallel connected check valve in outdoor unit)



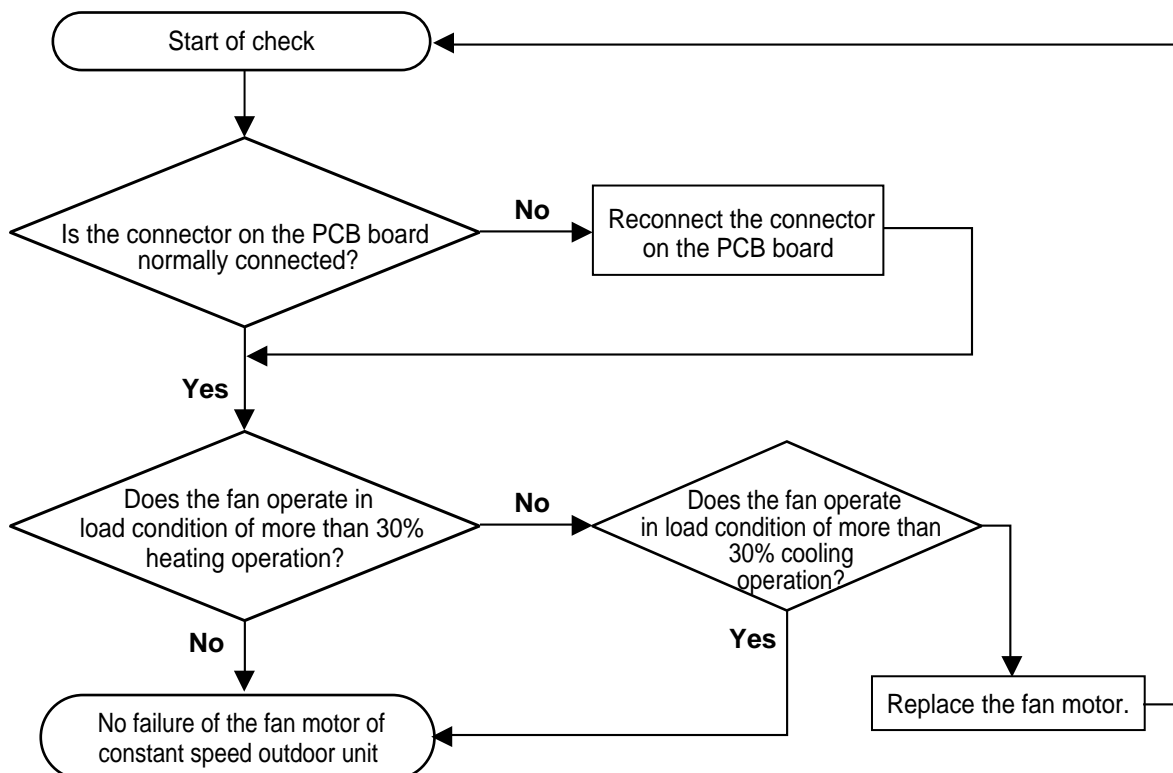
Hot Gas Bypass Valve.



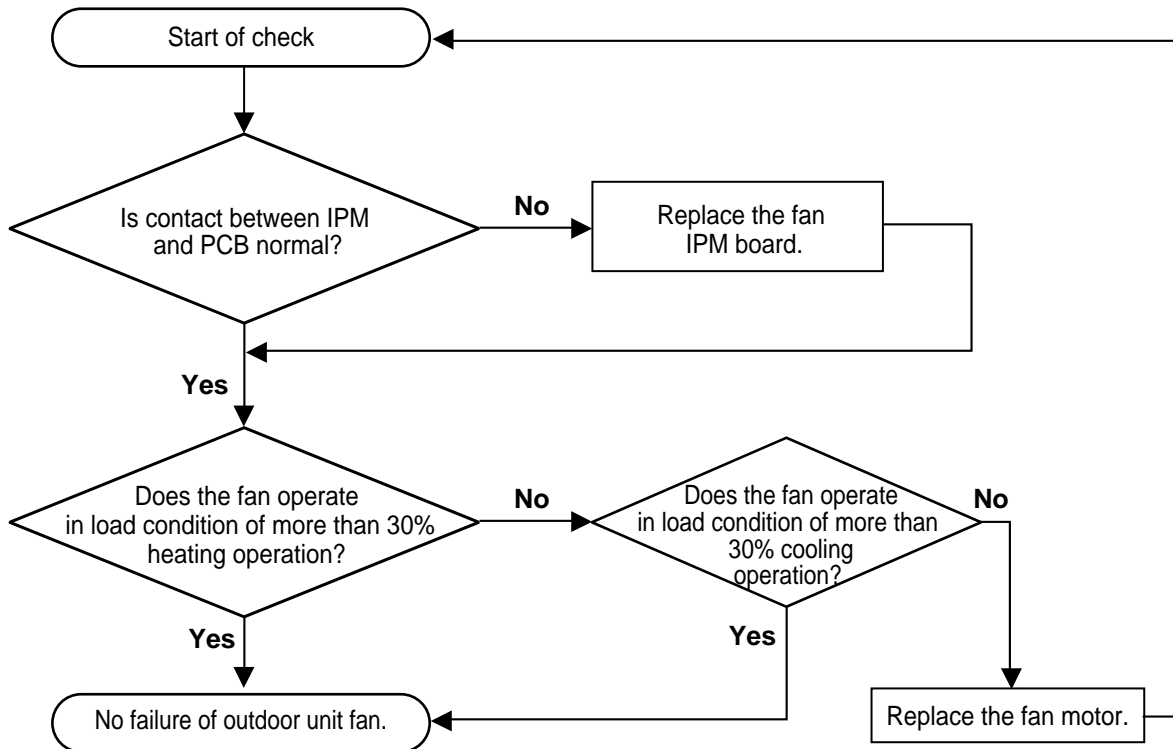
Liquid Injection Valve.



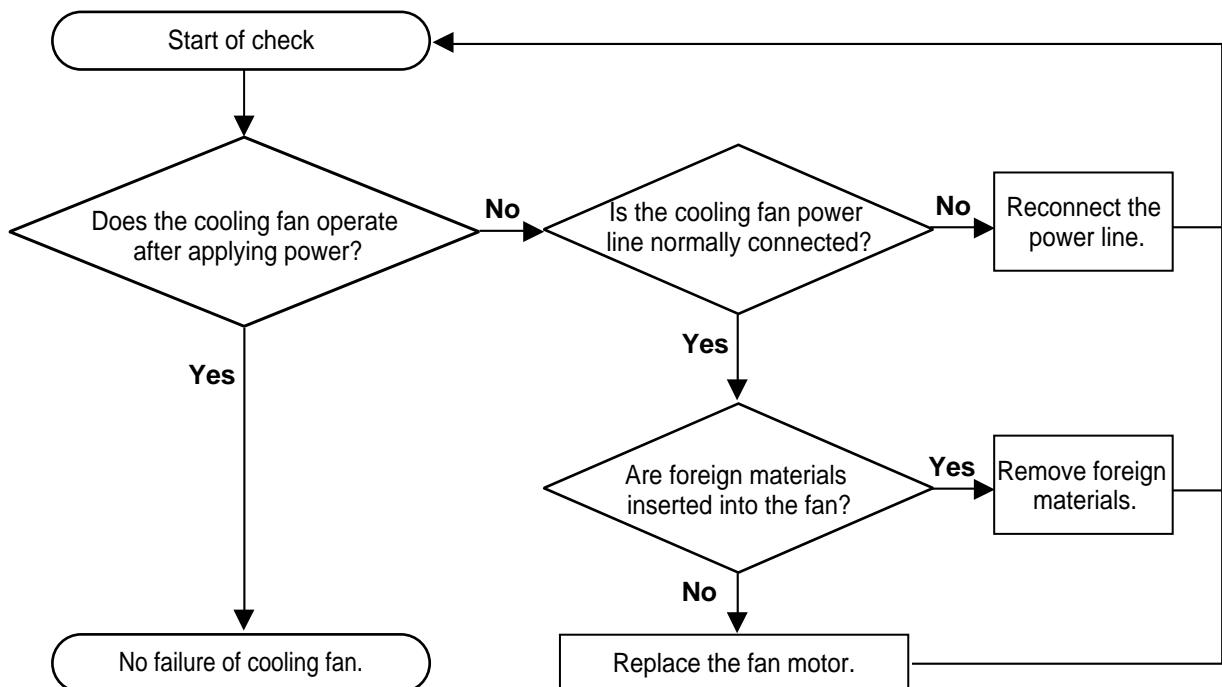
Constant Speed Outdoor Unit Fan



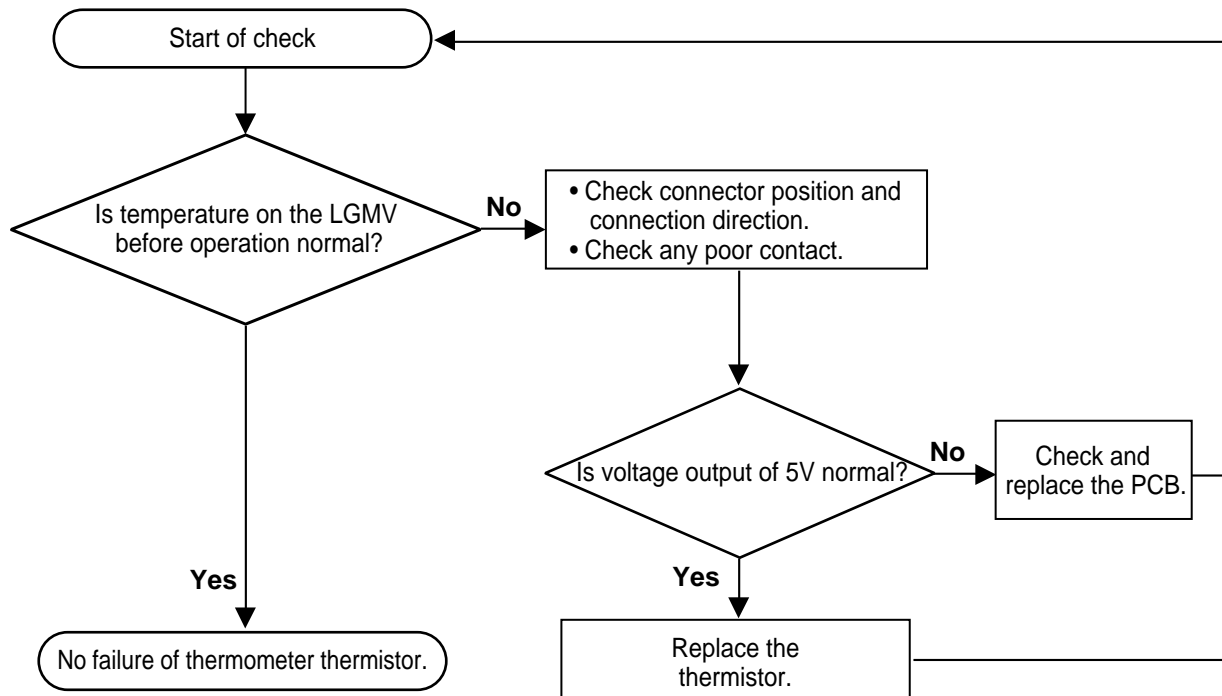
Inverter Outdoor Unit Fan.



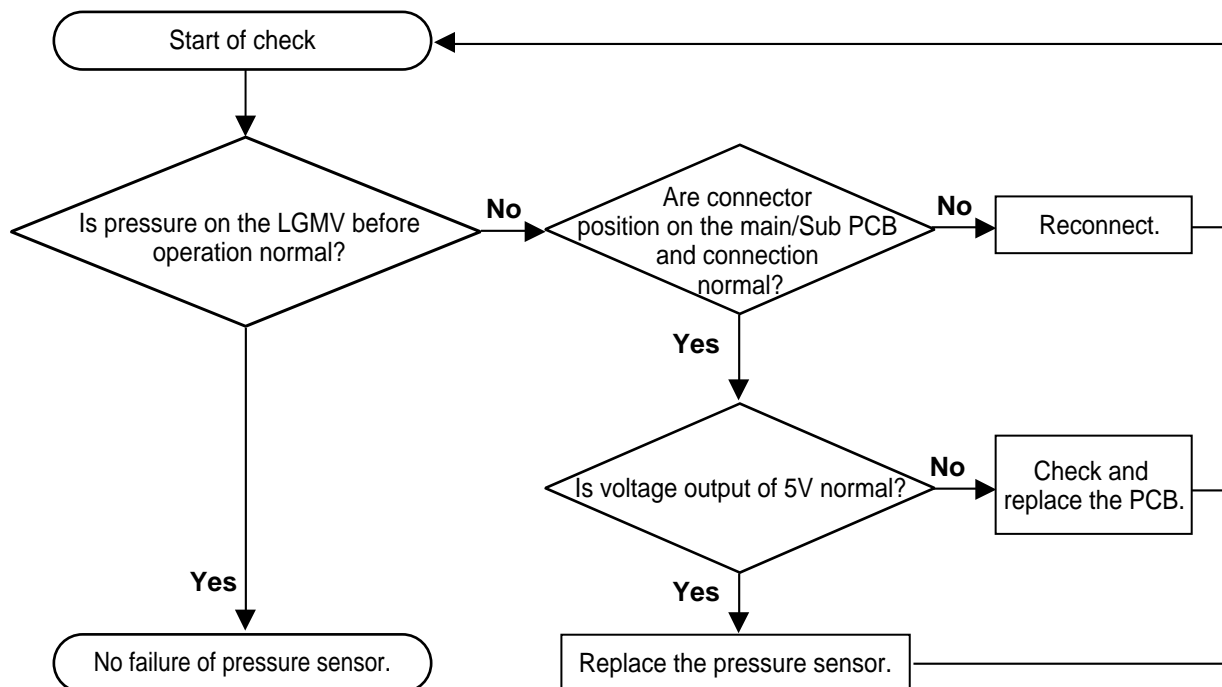
Cooling Fan.

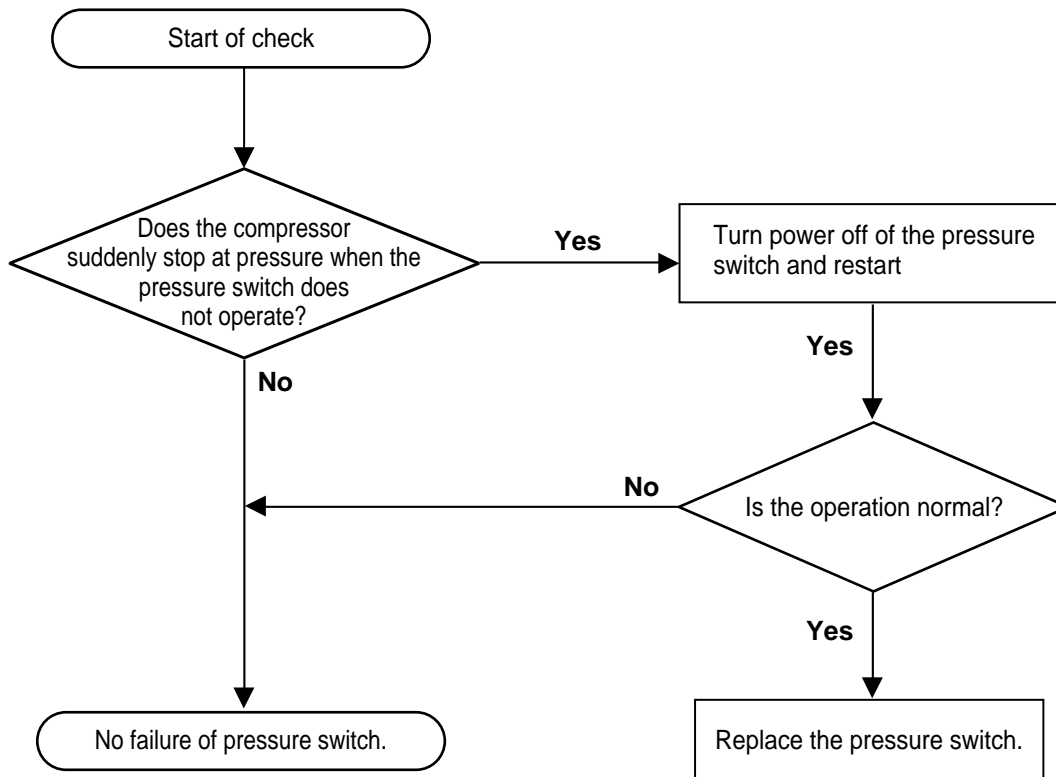


Thermistor.



High/Low Pressure Sensor.



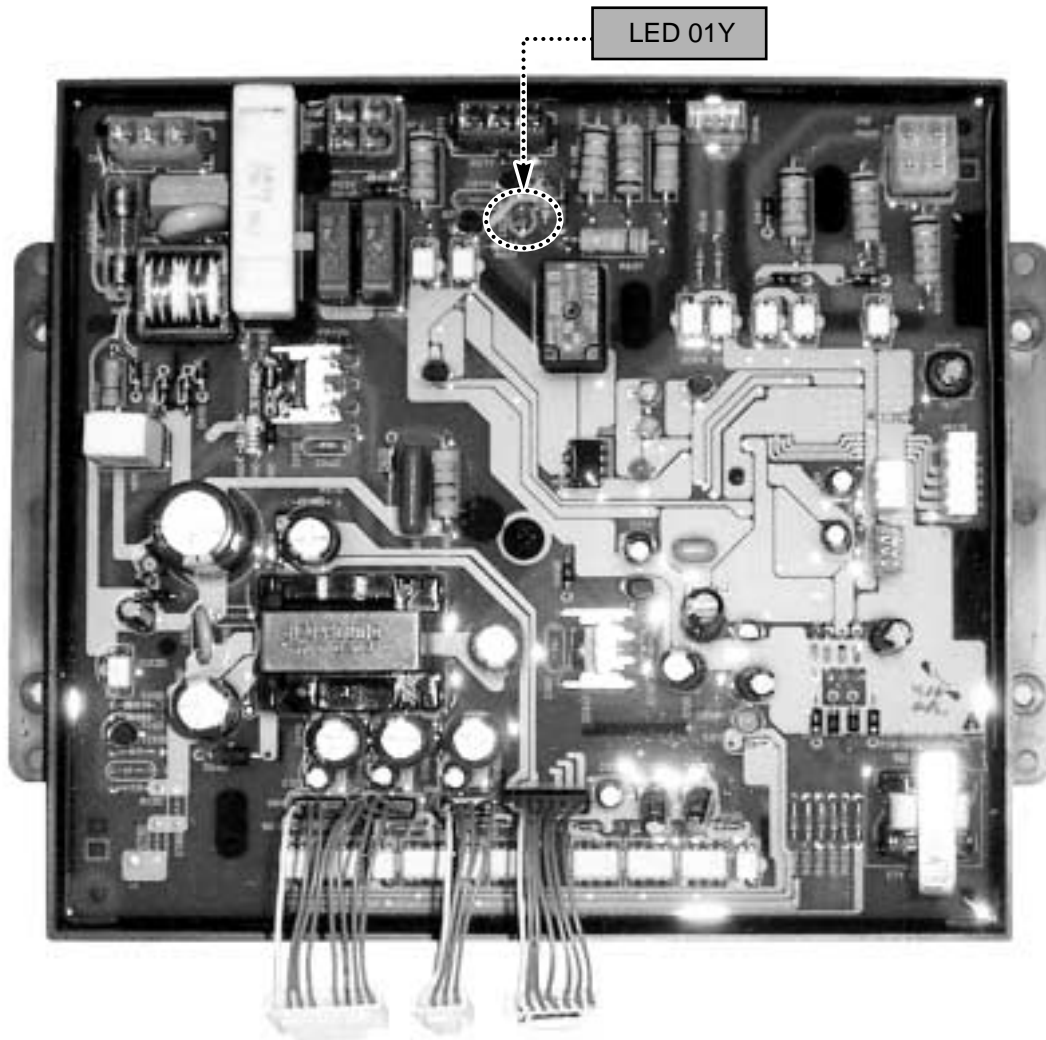
Pressure Switch.

Caution: If the system is operated for a long time with power off of the pressure switch, the pipe and parts of the system may be critically damaged.

Appendix

Position of the LED01Y in inverter board

CRUN10080T Inverter board



Resistance-Temperature Table

Thermistor: LNTA502HF

| T | Rmin | Rcent | Rmax | DR | DT(°C) |
|-----|-------|-------|-------|-------|--------|
| -30 | 79.62 | 86.91 | 94.78 | 9.05% | 1.42 |
| -29 | 75.02 | 81.79 | 89.08 | 8.92% | 1.41 |
| -28 | 70.71 | 77.00 | 83.76 | 8.79% | 1.40 |
| -27 | 66.67 | 72.51 | 78.79 | 8.66% | 1.39 |
| -26 | 62.89 | 68.31 | 74.14 | 8.53% | 1.38 |
| -25 | 59.34 | 64.38 | 69.79 | 8.40% | 1.37 |
| -24 | 56.00 | 60.69 | 65.71 | 8.27% | 1.36 |
| -23 | 52.88 | 57.24 | 61.90 | 8.15% | 1.35 |
| -22 | 49.94 | 54.00 | 58.33 | 8.02% | 1.33 |
| -21 | 47.19 | 50.96 | 54.98 | 7.90% | 1.32 |
| -20 | 44.60 | 48.11 | 51.85 | 7.77% | 1.31 |
| -19 | 42.17 | 45.43 | 48.91 | 7.65% | 1.30 |
| -18 | 39.88 | 42.92 | 46.15 | 7.53% | 1.29 |
| -17 | 37.73 | 40.56 | 43.57 | 7.40% | 1.28 |
| -16 | 35.71 | 38.35 | 41.14 | 7.28% | 1.26 |
| -15 | 33.81 | 36.26 | 38.86 | 7.16% | 1.25 |
| -14 | 32.02 | 34.30 | 36.72 | 7.04% | 1.24 |
| -13 | 30.33 | 32.46 | 34.71 | 6.93% | 1.23 |
| -12 | 28.74 | 30.73 | 32.82 | 6.81% | 1.22 |
| -11 | 27.25 | 29.10 | 31.04 | 6.69% | 1.20 |
| -10 | 25.84 | 27.56 | 29.37 | 6.58% | 1.19 |
| -9 | 24.51 | 26.11 | 27.80 | 6.46% | 1.18 |
| -8 | 23.25 | 24.75 | 26.32 | 6.35% | 1.16 |
| -7 | 22.07 | 23.47 | 24.93 | 6.23% | 1.15 |
| -6 | 20.95 | 22.26 | 23.62 | 6.12% | 1.14 |
| -5 | 19.90 | 21.12 | 22.39 | 6.01% | 1.13 |
| -4 | 18.91 | 20.04 | 21.22 | 5.90% | 1.11 |
| -3 | 17.97 | 19.02 | 20.13 | 5.79% | 1.10 |
| -2 | 17.08 | 18.07 | 19.09 | 5.68% | 1.09 |
| -1 | 16.24 | 17.16 | 18.12 | 5.57% | 1.07 |
| 0 | 15.45 | 16.31 | 17.20 | 5.46% | 1.06 |
| 1 | 14.70 | 15.50 | 16.33 | 5.36% | 1.04 |
| 2 | 13.99 | 14.74 | 15.51 | 5.25% | 1.03 |
| 3 | 13.32 | 14.02 | 14.74 | 5.15% | 1.02 |
| 4 | 12.68 | 13.33 | 14.01 | 5.04% | 1.00 |
| 5 | 12.08 | 12.69 | 13.32 | 4.94% | 0.99 |
| 6 | 11.51 | 12.08 | 12.66 | 4.83% | 0.97 |
| 7 | 10.97 | 11.50 | 12.05 | 4.73% | 0.96 |
| 8 | 10.46 | 10.96 | 11.46 | 4.63% | 0.95 |
| 9 | 9.978 | 10.44 | 10.91 | 4.53% | 0.93 |
| 10 | 9.518 | 9.949 | 10.39 | 4.43% | 0.92 |

| T | Rmin | Rcent | Rmax | DR | DT(°C) |
|----|-------|-------|-------|-------|--------|
| 11 | 9.083 | 9.484 | 9.895 | 4.33% | 0.90 |
| 12 | 8.669 | 9.044 | 9.427 | 4.23% | 0.89 |
| 13 | 8.277 | 8.627 | 8.983 | 4.13% | 0.87 |
| 14 | 7.905 | 8.231 | 8.563 | 4.03% | 0.86 |
| 15 | 7.551 | 7.856 | 8.165 | 3.93% | 0.84 |
| 16 | 7.216 | 7.500 | 7.787 | 3.84% | 0.83 |
| 17 | 6.897 | 7.161 | 7.430 | 3.74% | 0.81 |
| 18 | 6.594 | 6.841 | 7.090 | 3.65% | 0.80 |
| 19 | 6.306 | 6.536 | 6.768 | 3.55% | 0.78 |
| 20 | 6.032 | 6.246 | 6.462 | 3.46% | 0.76 |
| 21 | 5.772 | 5.971 | 6.172 | 3.37% | 0.75 |
| 22 | 5.524 | 5.710 | 5.897 | 3.27% | 0.73 |
| 23 | 5.288 | 5.461 | 5.635 | 3.18% | 0.72 |
| 24 | 5.064 | 5.225 | 5.386 | 3.09% | 0.70 |
| 25 | 4.850 | 5.000 | 5.150 | 3.00% | 0.68 |
| 26 | 4.638 | 4.786 | 4.934 | 3.09% | 0.71 |
| 27 | 4.437 | 4.583 | 4.728 | 3.18% | 0.73 |
| 28 | 4.246 | 4.389 | 4.532 | 3.27% | 0.76 |
| 29 | 4.064 | 4.204 | 4.345 | 3.36% | 0.79 |
| 30 | 3.891 | 4.028 | 4.167 | 3.45% | 0.81 |
| 31 | 3.726 | 3.861 | 3.997 | 3.53% | 0.84 |
| 32 | 3.569 | 3.701 | 3.835 | 3.62% | 0.86 |
| 33 | 3.419 | 3.549 | 3.681 | 3.71% | 0.89 |
| 34 | 3.277 | 3.404 | 3.534 | 3.79% | 0.92 |
| 35 | 3.141 | 3.266 | 3.393 | 3.88% | 0.94 |
| 36 | 3.012 | 3.134 | 3.258 | 3.97% | 0.97 |
| 37 | 2.888 | 3.008 | 3.130 | 4.05% | 1.00 |
| 38 | 2.771 | 2.888 | 3.008 | 4.14% | 1.02 |
| 39 | 2.659 | 2.773 | 2.890 | 4.22% | 1.05 |
| 40 | 2.552 | 2.664 | 2.779 | 4.31% | 1.08 |
| 41 | 2.450 | 2.559 | 2.672 | 4.39% | 1.10 |
| 42 | 2.352 | 2.459 | 2.569 | 4.47% | 1.13 |
| 43 | 2.259 | 2.364 | 2.472 | 4.55% | 1.16 |
| 44 | 2.170 | 2.273 | 2.378 | 4.64% | 1.19 |
| 45 | 2.085 | 2.185 | 2.289 | 4.72% | 1.22 |
| 46 | 2.004 | 2.102 | 2.203 | 4.80% | 1.25 |
| 47 | 1.926 | 2.022 | 2.121 | 4.88% | 1.27 |
| 48 | 1.852 | 1.946 | 2.042 | 4.96% | 1.30 |
| 49 | 1.781 | 1.873 | 1.967 | 5.04% | 1.33 |
| 50 | 1.713 | 1.803 | 1.895 | 5.12% | 1.36 |

| T | Rmin | Rcent | Rmax | DR | DT(°C) |
|----|--------|--------|--------|-------|--------|
| 51 | 1.649 | 1.736 | 1.826 | 5.20% | 1.39 |
| 52 | 1.587 | 1.672 | 1.760 | 5.28% | 1.42 |
| 53 | 1.527 | 1.610 | 1.697 | 5.36% | 1.45 |
| 54 | 1.470 | 1.552 | 1.636 | 5.44% | 1.48 |
| 55 | 1.416 | 1.495 | 1.578 | 5.52% | 1.51 |
| 56 | 1.364 | 1.441 | 1.522 | 5.59% | 1.54 |
| 57 | 1.314 | 1.389 | 1.468 | 5.67% | 1.57 |
| 58 | 1.266 | 1.340 | 1.417 | 5.75% | 1.60 |
| 59 | 1.220 | 1.292 | 1.367 | 5.83% | 1.63 |
| 60 | 1.176 | 1.246 | 1.320 | 5.90% | 1.66 |
| 61 | 1.134 | 1.203 | 1.274 | 5.98% | 1.69 |
| 62 | 1.093 | 1.161 | 1.231 | 6.05% | 1.72 |
| 63 | 1.054 | 1.120 | 1.189 | 6.13% | 1.76 |
| 64 | 1.017 | 1.081 | 1.148 | 6.20% | 1.79 |
| 65 | 0.9815 | 1.044 | 1.110 | 6.28% | 1.82 |
| 66 | 0.9472 | 1.008 | 1.072 | 6.35% | 1.85 |
| 67 | 0.9143 | 0.9739 | 1.037 | 6.43% | 1.88 |
| 68 | 0.8827 | 0.9409 | 1.002 | 6.50% | 1.91 |
| 69 | 0.8523 | 0.9092 | 0.9689 | 6.57% | 1.95 |
| 70 | 0.8232 | 0.8787 | 0.9370 | 6.64% | 1.98 |
| 71 | 0.7951 | 0.8493 | 0.9064 | 6.72% | 2.01 |
| 72 | 0.7682 | 0.8211 | 0.8768 | 6.79% | 2.04 |
| 73 | 0.7423 | 0.7940 | 0.8484 | 6.86% | 2.08 |
| 74 | 0.7174 | 0.7678 | 0.8211 | 6.93% | 2.11 |
| 75 | 0.6935 | 0.7427 | 0.7947 | 7.00% | 2.14 |
| 76 | 0.6704 | 0.7185 | 0.7693 | 7.07% | 2.18 |
| 77 | 0.6483 | 0.6952 | 0.7449 | 7.15% | 2.21 |
| 78 | 0.6270 | 0.6728 | 0.7214 | 7.22% | 2.25 |
| 79 | 0.6064 | 0.6512 | 0.6987 | 7.29% | 2.28 |
| 80 | 0.5867 | 0.6304 | 0.6768 | 7.36% | 2.31 |
| 81 | 0.5677 | 0.6104 | 0.6557 | 7.42% | 2.35 |
| 82 | 0.5494 | 0.5911 | 0.6353 | 7.49% | 2.38 |
| 83 | 0.5317 | 0.5724 | 0.6157 | 7.56% | 2.42 |
| 84 | 0.5147 | 0.5545 | 0.5968 | 7.63% | 2.45 |
| 85 | 0.4983 | 0.5372 | 0.5786 | 7.70% | 2.49 |
| 86 | 0.4826 | 0.5205 | 0.5610 | 7.77% | 2.52 |
| 87 | 0.4674 | 0.5044 | 0.5440 | 7.84% | 2.56 |
| 88 | 0.4527 | 0.4889 | 0.5275 | 7.90% | 2.59 |
| 89 | 0.4386 | 0.4739 | 0.5117 | 7.97% | 2.63 |
| 90 | 0.4249 | 0.4595 | 0.4964 | 8.04% | 2.67 |

| T | Rmin | Rcent | Rmax | DR | DT(°C) |
|-----|--------|--------|--------|-------|--------|
| 91 | 0.4118 | 0.4455 | 0.4816 | 8.10% | 2.70 |
| 92 | 0.3991 | 0.4321 | 0.4674 | 8.17% | 2.74 |
| 93 | 0.3868 | 0.4191 | 0.4536 | 8.24% | 2.77 |
| 94 | 0.3750 | 0.4065 | 0.4402 | 8.30% | 2.81 |
| 95 | 0.3636 | 0.3944 | 0.4274 | 8.37% | 2.85 |
| 96 | 0.3526 | 0.3826 | 0.4149 | 8.43% | 2.88 |
| 97 | 0.3419 | 0.3713 | 0.4029 | 8.50% | 2.92 |
| 98 | 0.3317 | 0.3604 | 0.3912 | 8.56% | 2.96 |
| 99 | 0.3217 | 0.3498 | 0.3800 | 8.63% | 3.00 |
| 100 | 0.3121 | 0.3396 | 0.3691 | 8.69% | 3.03 |
| 101 | 0.3029 | 0.3297 | 0.3586 | 8.76% | 3.07 |
| 102 | 0.2939 | 0.3201 | 0.3484 | 8.82% | 3.11 |
| 103 | 0.2853 | 0.3109 | 0.3385 | 8.88% | 3.15 |
| 104 | 0.2769 | 0.3019 | 0.3290 | 8.95% | 3.19 |
| 105 | 0.2688 | 0.2933 | 0.3197 | 9.01% | 3.22 |
| 106 | 0.2610 | 0.2849 | 0.3108 | 9.07% | 3.26 |
| 107 | 0.2534 | 0.2768 | 0.3021 | 9.14% | 3.30 |
| 108 | 0.2461 | 0.2690 | 0.2937 | 9.20% | 3.34 |
| 109 | 0.2390 | 0.2614 | 0.2856 | 9.26% | 3.38 |
| 110 | 0.2321 | 0.2540 | 0.2777 | 9.33% | 3.42 |

Note: T : Temperature(°C)

Rmin : Minimum value of Resistance

Rcent : Central value of Resistance

Rmax : Maximum value of Resistance

DR : Deviation Ratio

DT : Deviation Temperature

Thermistor: 103HF

| T | Rmin | Rcent | Rmax | DR | DT(°C) |
|-----|-------|-------|-------|-------|--------|
| -30 | 159.2 | 173.8 | 189.6 | 9.05% | 1.42 |
| -29 | 150.0 | 163.6 | 178.2 | 8.92% | 1.41 |
| -28 | 141.4 | 154.0 | 167.5 | 8.79% | 1.40 |
| -27 | 133.3 | 145.0 | 157.6 | 8.66% | 1.39 |
| -26 | 125.8 | 136.6 | 148.3 | 8.53% | 1.38 |
| -25 | 118.7 | 128.8 | 139.6 | 8.40% | 1.37 |
| -24 | 112.0 | 121.4 | 131.4 | 8.27% | 1.36 |
| -23 | 105.8 | 114.5 | 123.8 | 8.15% | 1.35 |
| -22 | 99.89 | 108.0 | 116.7 | 8.02% | 1.33 |
| -21 | 94.38 | 101.9 | 110.0 | 7.90% | 1.32 |
| -20 | 89.20 | 96.22 | 103.7 | 7.77% | 1.31 |
| -19 | 84.34 | 90.87 | 97.82 | 7.65% | 1.30 |
| -18 | 79.76 | 85.84 | 92.30 | 7.53% | 1.29 |
| -17 | 75.46 | 81.12 | 87.13 | 7.40% | 1.28 |
| -16 | 71.42 | 76.69 | 82.28 | 7.28% | 1.26 |
| -15 | 67.61 | 72.52 | 77.72 | 7.16% | 1.25 |
| -14 | 64.03 | 68.61 | 73.44 | 7.04% | 1.24 |
| -13 | 60.66 | 64.92 | 69.42 | 6.93% | 1.23 |
| -12 | 57.48 | 61.45 | 65.64 | 6.81% | 1.22 |
| -11 | 54.49 | 58.19 | 62.09 | 6.69% | 1.20 |
| -10 | 51.67 | 55.12 | 58.74 | 6.58% | 1.19 |
| -9 | 49.01 | 52.23 | 55.60 | 6.46% | 1.18 |
| -8 | 46.51 | 49.50 | 52.65 | 6.35% | 1.16 |
| -7 | 44.14 | 46.94 | 49.86 | 6.23% | 1.15 |
| -6 | 41.91 | 44.52 | 47.24 | 6.12% | 1.14 |
| -5 | 39.80 | 42.23 | 44.77 | 6.01% | 1.13 |
| -4 | 37.81 | 40.08 | 42.45 | 5.90% | 1.11 |
| -3 | 35.94 | 38.05 | 40.25 | 5.79% | 1.10 |
| -2 | 34.16 | 36.13 | 38.19 | 5.68% | 1.09 |
| -1 | 32.48 | 34.32 | 36.24 | 5.57% | 1.07 |
| 0 | 30.90 | 32.62 | 34.40 | 5.46% | 1.06 |
| 1 | 29.40 | 31.00 | 32.66 | 5.36% | 1.04 |
| 2 | 27.98 | 29.48 | 31.02 | 5.25% | 1.03 |
| 3 | 26.64 | 28.03 | 29.48 | 5.15% | 1.02 |
| 4 | 25.37 | 26.67 | 28.01 | 5.04% | 1.00 |
| 5 | 24.16 | 25.38 | 26.63 | 4.94% | 0.99 |
| 6 | 23.03 | 24.16 | 25.33 | 4.83% | 0.97 |
| 7 | 21.95 | 23.01 | 24.09 | 4.73% | 0.96 |
| 8 | 20.92 | 21.91 | 22.93 | 4.63% | 0.95 |
| 9 | 19.96 | 20.88 | 21.82 | 4.53% | 0.93 |
| 10 | 19.04 | 19.90 | 20.78 | 4.43% | 0.92 |

| T | Rmin | Rcent | Rmax | DR | DT(°C) |
|----|-------|-------|-------|-------|--------|
| 11 | 18.17 | 18.97 | 19.79 | 4.33% | 0.90 |
| 12 | 17.34 | 18.09 | 18.85 | 4.23% | 0.89 |
| 13 | 16.55 | 17.25 | 17.97 | 4.13% | 0.87 |
| 14 | 15.81 | 16.46 | 17.13 | 4.03% | 0.86 |
| 15 | 15.10 | 15.71 | 16.33 | 3.93% | 0.84 |
| 16 | 14.43 | 15.00 | 15.57 | 3.84% | 0.83 |
| 17 | 13.79 | 14.32 | 14.86 | 3.74% | 0.81 |
| 18 | 13.19 | 13.68 | 14.18 | 3.65% | 0.80 |
| 19 | 12.61 | 13.07 | 13.54 | 3.55% | 0.78 |
| 20 | 12.06 | 12.49 | 12.92 | 3.46% | 0.76 |
| 21 | 11.54 | 11.94 | 12.34 | 3.37% | 0.75 |
| 22 | 11.05 | 11.42 | 11.79 | 3.27% | 0.73 |
| 23 | 10.58 | 10.92 | 11.27 | 3.18% | 0.72 |
| 24 | 10.13 | 10.45 | 10.77 | 3.09% | 0.70 |
| 25 | 9.700 | 10.00 | 10.30 | 3.00% | 0.68 |
| 26 | 9.277 | 9.572 | 9.868 | 3.09% | 0.71 |
| 27 | 8.875 | 9.165 | 9.456 | 3.18% | 0.73 |
| 28 | 8.492 | 8.777 | 9.064 | 3.27% | 0.76 |
| 29 | 8.128 | 8.408 | 8.691 | 3.36% | 0.79 |
| 30 | 7.781 | 8.057 | 8.335 | 3.45% | 0.81 |
| 31 | 7.452 | 7.722 | 7.995 | 3.53% | 0.84 |
| 32 | 7.138 | 7.403 | 7.671 | 3.62% | 0.86 |
| 33 | 6.839 | 7.099 | 7.362 | 3.71% | 0.89 |
| 34 | 6.554 | 6.809 | 7.067 | 3.79% | 0.92 |
| 35 | 6.282 | 6.532 | 6.786 | 3.88% | 0.94 |
| 36 | 6.024 | 6.268 | 6.517 | 3.97% | 0.97 |
| 37 | 5.777 | 6.016 | 6.260 | 4.05% | 1.00 |
| 38 | 5.542 | 5.776 | 6.015 | 4.14% | 1.02 |
| 39 | 5.317 | 5.547 | 5.781 | 4.22% | 1.05 |
| 40 | 5.103 | 5.328 | 5.557 | 4.31% | 1.08 |
| 41 | 4.899 | 5.119 | 5.343 | 4.39% | 1.10 |
| 42 | 4.704 | 4.919 | 5.139 | 4.47% | 1.13 |
| 43 | 4.518 | 4.728 | 4.943 | 4.55% | 1.16 |
| 44 | 4.340 | 4.545 | 4.756 | 4.64% | 1.19 |
| 45 | 4.170 | 4.371 | 4.577 | 4.72% | 1.22 |
| 46 | 4.008 | 4.204 | 4.406 | 4.80% | 1.25 |
| 47 | 3.853 | 4.044 | 4.242 | 4.88% | 1.27 |
| 48 | 3.704 | 3.892 | 4.085 | 4.96% | 1.30 |
| 49 | 3.563 | 3.746 | 3.934 | 5.04% | 1.33 |
| 50 | 3.427 | 3.606 | 3.790 | 5.12% | 1.36 |

| T | Rmin | Rcent | Rmax | DR | DT(°C) |
|----|--------|--------|--------|-------|--------|
| 51 | 3.297 | 3.472 | 3.652 | 5.20% | 1.39 |
| 52 | 3.173 | 3.344 | 3.520 | 5.28% | 1.42 |
| 53 | 3.054 | 3.221 | 3.394 | 5.36% | 1.45 |
| 54 | 2.940 | 3.103 | 3.272 | 5.44% | 1.48 |
| 55 | 2.832 | 2.990 | 3.155 | 5.52% | 1.51 |
| 56 | 2.727 | 2.882 | 3.044 | 5.59% | 1.54 |
| 57 | 2.627 | 2.779 | 2.936 | 5.67% | 1.57 |
| 58 | 2.532 | 2.680 | 2.834 | 5.75% | 1.60 |
| 59 | 2.440 | 2.584 | 2.735 | 5.83% | 1.63 |
| 60 | 2.352 | 2.493 | 2.640 | 5.90% | 1.66 |
| 61 | 2.267 | 2.405 | 2.549 | 5.98% | 1.69 |
| 62 | 2.187 | 2.321 | 2.462 | 6.05% | 1.72 |
| 63 | 2.109 | 2.240 | 2.378 | 6.13% | 1.76 |
| 64 | 2.035 | 2.163 | 2.297 | 6.20% | 1.79 |
| 65 | 1.963 | 2.088 | 2.219 | 6.28% | 1.82 |
| 66 | 1.894 | 2.017 | 2.145 | 6.35% | 1.85 |
| 67 | 1.829 | 1.948 | 2.073 | 6.43% | 1.88 |
| 68 | 1.765 | 1.882 | 2.004 | 6.50% | 1.91 |
| 69 | 1.705 | 1.818 | 1.938 | 6.57% | 1.95 |
| 70 | 1.646 | 1.757 | 1.874 | 6.64% | 1.98 |
| 71 | 1.590 | 1.699 | 1.813 | 6.72% | 2.01 |
| 72 | 1.536 | 1.642 | 1.754 | 6.79% | 2.04 |
| 73 | 1.485 | 1.588 | 1.697 | 6.86% | 2.08 |
| 74 | 1.435 | 1.536 | 1.642 | 6.93% | 2.11 |
| 75 | 1.387 | 1.485 | 1.589 | 7.00% | 2.14 |
| 76 | 1.341 | 1.437 | 1.539 | 7.07% | 2.18 |
| 77 | 1.297 | 1.390 | 1.490 | 7.15% | 2.21 |
| 78 | 1.254 | 1.346 | 1.443 | 7.22% | 2.25 |
| 79 | 1.213 | 1.302 | 1.397 | 7.29% | 2.28 |
| 80 | 1.173 | 1.261 | 1.354 | 7.36% | 2.31 |
| 81 | 1.135 | 1.221 | 1.311 | 7.42% | 2.35 |
| 82 | 1.099 | 1.182 | 1.271 | 7.49% | 2.38 |
| 83 | 1.063 | 1.145 | 1.231 | 7.56% | 2.42 |
| 84 | 1.029 | 1.109 | 1.194 | 7.63% | 2.45 |
| 85 | 0.9967 | 1.074 | 1.157 | 7.70% | 2.49 |
| 86 | 0.9651 | 1.041 | 1.122 | 7.77% | 2.52 |
| 87 | 0.9347 | 1.009 | 1.088 | 7.84% | 2.56 |
| 88 | 0.9054 | 0.9778 | 1.055 | 7.90% | 2.59 |
| 89 | 0.8771 | 0.9479 | 1.023 | 7.97% | 2.63 |
| 90 | 0.8498 | 0.9190 | 0.9928 | 8.04% | 2.67 |

| T | Rmin | Rcent | Rmax | DR | DT(°C) |
|-----|--------|--------|--------|-------|--------|
| 91 | 0.8235 | 0.8911 | 0.9633 | 8.10% | 2.70 |
| 92 | 0.7981 | 0.8641 | 0.9347 | 8.17% | 2.74 |
| 93 | 0.7736 | 0.8381 | 0.9071 | 8.24% | 2.77 |
| 94 | 0.7500 | 0.8130 | 0.8805 | 8.30% | 2.81 |
| 95 | 0.7272 | 0.7887 | 0.8547 | 8.37% | 2.85 |
| 96 | 0.7051 | 0.7653 | 0.8298 | 8.43% | 2.88 |
| 97 | 0.6839 | 0.7426 | 0.8058 | 8.50% | 2.92 |
| 98 | 0.6633 | 0.7208 | 0.7825 | 8.56% | 2.96 |
| 99 | 0.6435 | 0.6996 | 0.7600 | 8.63% | 3.00 |
| 100 | 0.6243 | 0.6792 | 0.7382 | 8.69% | 3.03 |
| 101 | 0.6057 | 0.6594 | 0.7171 | 8.76% | 3.07 |
| 102 | 0.5878 | 0.6403 | 0.6967 | 8.82% | 3.11 |
| 103 | 0.5705 | 0.6218 | 0.6770 | 8.88% | 3.15 |
| 104 | 0.5538 | 0.6039 | 0.6579 | 8.95% | 3.19 |
| 105 | 0.5376 | 0.5866 | 0.6394 | 9.01% | 3.22 |
| 106 | 0.5219 | 0.5698 | 0.6215 | 9.07% | 3.26 |
| 107 | 0.5068 | 0.5536 | 0.6042 | 9.14% | 3.30 |
| 108 | 0.4921 | 0.5379 | 0.5874 | 9.20% | 3.34 |
| 109 | 0.4780 | 0.5227 | 0.5711 | 9.26% | 3.38 |
| 110 | 0.4643 | 0.5080 | 0.5554 | 9.33% | 3.42 |

Note: T : Temperature(°C)

Rmin : Minimum value of Resistance

Rcent : Central value of Resistance

Rmax : Maximum value of Resistance

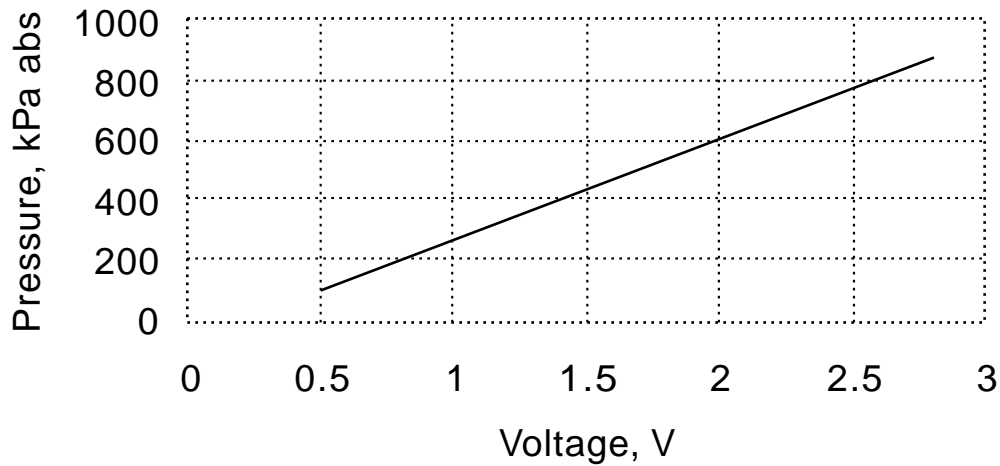
DR : Deviation Ratio

DT : Deviation Temperature

Voltage-Pressure Table

Low pressure sensor

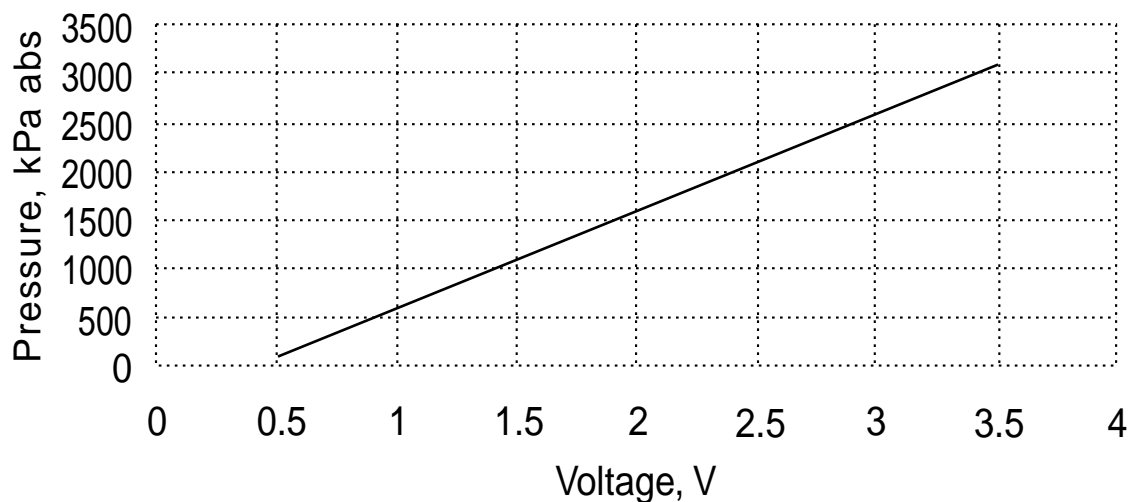
YSK-S344 sensor



| Voltage, V | P, kPa | Tbub, °C | Voltage, V | P, kPa | Tbub, °C | Voltage, V | P, kPa | Tbub, °C |
|------------|--------|----------|------------|--------|----------|------------|--------|----------|
| 0.5 | 101 | -43.9 | 1.28 | 361 | -13.2 | 2.06 | 621 | 2.8 |
| 0.53 | 111 | -41.9 | 1.31 | 371 | -12.5 | 2.09 | 631 | 3.3 |
| 0.56 | 121 | -40.0 | 1.34 | 381 | -11.7 | 2.12 | 641 | 3.8 |
| 0.59 | 131 | -38.3 | 1.37 | 391 | -11.0 | 2.15 | 651 | 4.3 |
| 0.62 | 141 | -36.7 | 1.4 | 401 | -10.3 | 2.18 | 661 | 4.8 |
| 0.65 | 151 | -35.1 | 1.43 | 411 | -9.6 | 2.21 | 671 | 5.3 |
| 0.68 | 161 | -33.6 | 1.46 | 421 | -8.9 | 2.24 | 681 | 5.7 |
| 0.71 | 171 | -32.3 | 1.49 | 431 | -8.2 | 2.27 | 691 | 6.2 |
| 0.74 | 181 | -30.9 | 1.52 | 441 | -7.6 | 2.3 | 701 | 6.7 |
| 0.77 | 191 | -29.6 | 1.55 | 451 | -6.9 | 2.33 | 711 | 7.1 |
| 0.8 | 201 | -28.4 | 1.58 | 461 | -6.3 | 2.36 | 721 | 7.6 |
| 0.83 | 211 | -27.2 | 1.61 | 471 | -5.6 | 2.39 | 731 | 8.0 |
| 0.86 | 221 | -26.1 | 1.64 | 481 | -5.0 | 2.42 | 741 | 8.5 |
| 0.89 | 231 | -25.0 | 1.67 | 491 | -4.4 | 2.45 | 751 | 8.9 |
| 0.92 | 241 | -23.9 | 1.7 | 501 | -3.8 | 2.48 | 761 | 9.4 |
| 0.95 | 251 | -22.9 | 1.73 | 511 | -3.2 | 2.51 | 771 | 9.8 |
| 0.98 | 261 | -21.9 | 1.76 | 521 | -2.6 | 2.54 | 781 | 10.2 |
| 1.01 | 271 | -20.9 | 1.79 | 531 | -2.1 | 2.57 | 791 | 10.7 |
| 1.04 | 281 | -20.0 | 1.82 | 541 | -1.5 | 2.6 | 801 | 11.1 |
| 1.07 | 291 | -19.1 | 1.85 | 551 | -0.9 | 2.63 | 811 | 11.5 |
| 1.1 | 301 | -18.2 | 1.88 | 561 | -0.4 | 2.66 | 821 | 11.9 |
| 1.13 | 311 | -17.3 | 1.91 | 571 | 0.2 | 2.69 | 831 | 12.3 |
| 1.16 | 321 | -16.5 | 1.94 | 581 | 0.7 | 2.72 | 841 | 12.7 |
| 1.19 | 331 | -15.6 | 1.97 | 591 | 1.2 | 2.75 | 851 | 13.1 |
| 1.22 | 341 | -14.8 | 2 | 601 | 1.8 | 2.78 | 861 | 13.5 |
| 1.25 | 351 | -14.0 | 2.03 | 611 | 2.3 | 2.81 | 871 | 13.9 |

High pressure sensor

YSK-S345 sensor

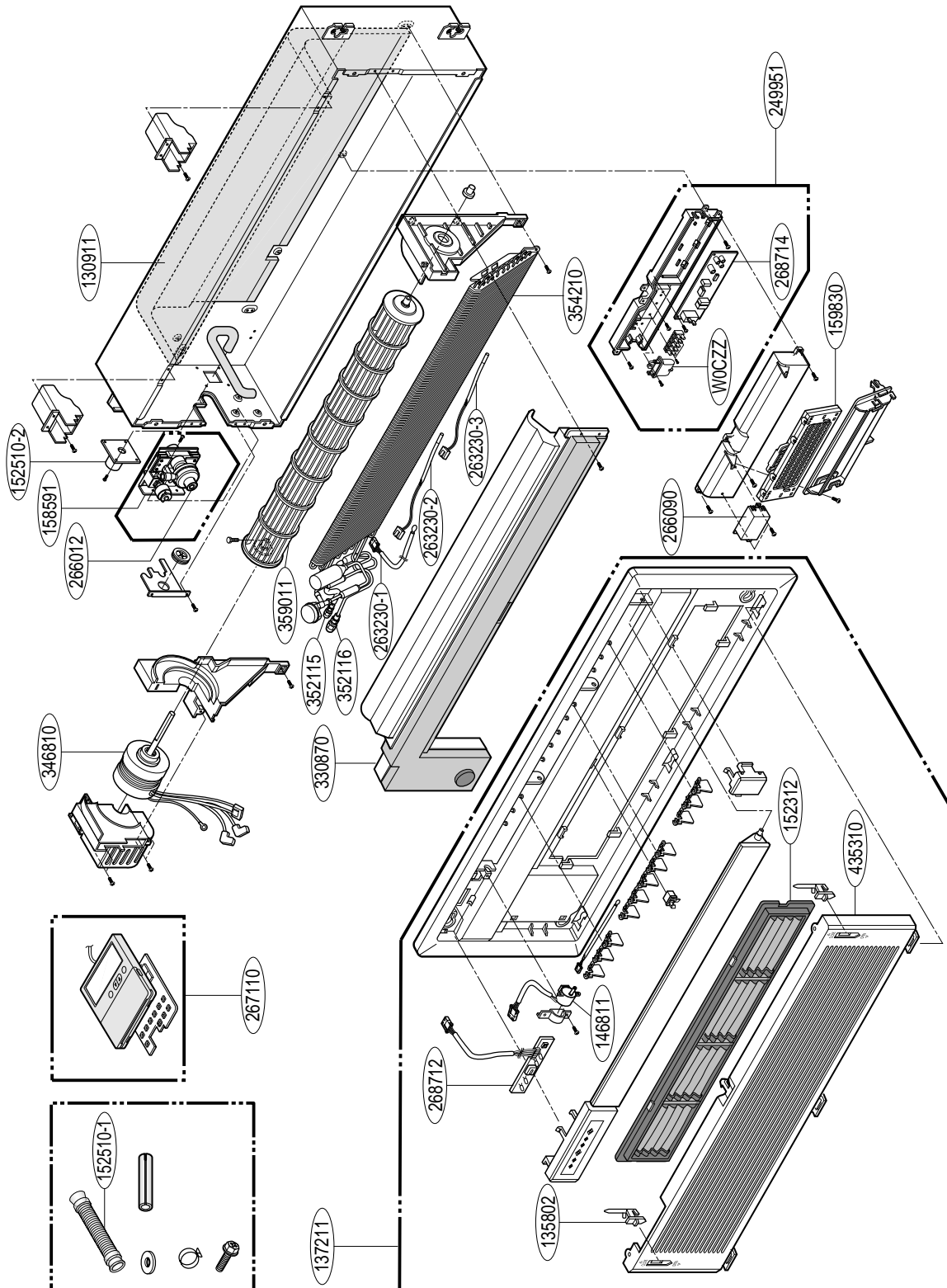


| Voltage, V | P, kPa | Tbub, °C | Voltage, V | P, kPa | Tbub, °C | Voltage, V | P, kPa | Tbub, °C |
|------------|--------|----------|------------|--------|----------|------------|--------|----------|
| 1.28 | 881 | 14.3 | 2.06 | 1661 | 38.0 | 2.84 | 2441 | 54.4 |
| 1.31 | 911 | 15.5 | 2.09 | 1691 | 38.7 | 2.87 | 2471 | 54.9 |
| 1.34 | 941 | 16.6 | 2.12 | 1721 | 39.4 | 2.9 | 2501 | 55.5 |
| 1.37 | 971 | 17.7 | 2.15 | 1751 | 40.2 | 2.93 | 2531 | 56.0 |
| 1.4 | 1001 | 18.8 | 2.18 | 1781 | 40.9 | 2.96 | 2561 | 56.5 |
| 1.43 | 1031 | 19.8 | 2.21 | 1811 | 41.5 | 2.99 | 2591 | 57.1 |
| 1.46 | 1061 | 20.9 | 2.24 | 1841 | 42.2 | 3.02 | 2621 | 57.6 |
| 1.49 | 1091 | 21.9 | 2.27 | 1871 | 42.9 | 3.05 | 2651 | 58.1 |
| 1.52 | 1121 | 22.9 | 2.3 | 1901 | 43.6 | 3.08 | 2681 | 58.6 |
| 1.55 | 1151 | 23.8 | 2.33 | 1931 | 44.2 | 3.11 | 2711 | 59.1 |
| 1.58 | 1181 | 24.8 | 2.36 | 1961 | 44.9 | 3.14 | 2741 | 59.6 |
| 1.61 | 1211 | 25.7 | 2.39 | 1991 | 45.5 | 3.17 | 2771 | 60.1 |
| 1.64 | 1241 | 26.6 | 2.42 | 2021 | 46.1 | 3.2 | 2801 | 60.6 |
| 1.67 | 1271 | 27.5 | 2.45 | 2051 | 46.8 | 3.23 | 2831 | 61.1 |
| 1.7 | 1301 | 28.4 | 2.48 | 2081 | 47.4 | 3.26 | 2861 | 61.6 |
| 1.73 | 1331 | 29.3 | 2.51 | 2111 | 48.0 | 3.29 | 2891 | 62.1 |
| 1.76 | 1361 | 30.1 | 2.54 | 2141 | 48.6 | 3.32 | 2921 | 62.6 |
| 1.79 | 1391 | 31.0 | 2.57 | 2171 | 49.2 | 3.35 | 2951 | 63.1 |
| 1.82 | 1421 | 31.8 | 2.6 | 2201 | 49.8 | 3.38 | 2981 | 63.5 |
| 1.85 | 1451 | 32.6 | 2.63 | 2231 | 50.4 | 3.41 | 3011 | 64.0 |
| 1.88 | 1481 | 33.4 | 2.66 | 2261 | 51.0 | 3.44 | 3041 | 64.5 |
| 1.91 | 1511 | 34.2 | 2.69 | 2291 | 51.6 | 3.47 | 3071 | 64.9 |
| 1.94 | 1541 | 35.0 | 2.72 | 2321 | 52.1 | 3.5 | 3101 | 65.4 |
| 1.97 | 1571 | 35.8 | 2.75 | 2351 | 52.7 | | | |
| 2 | 1601 | 36.5 | 2.78 | 2381 | 53.3 | | | |
| 2.03 | 1631 | 37.3 | 2.81 | 2411 | 53.8 | | | |

Exploded View & Replacement Parts List

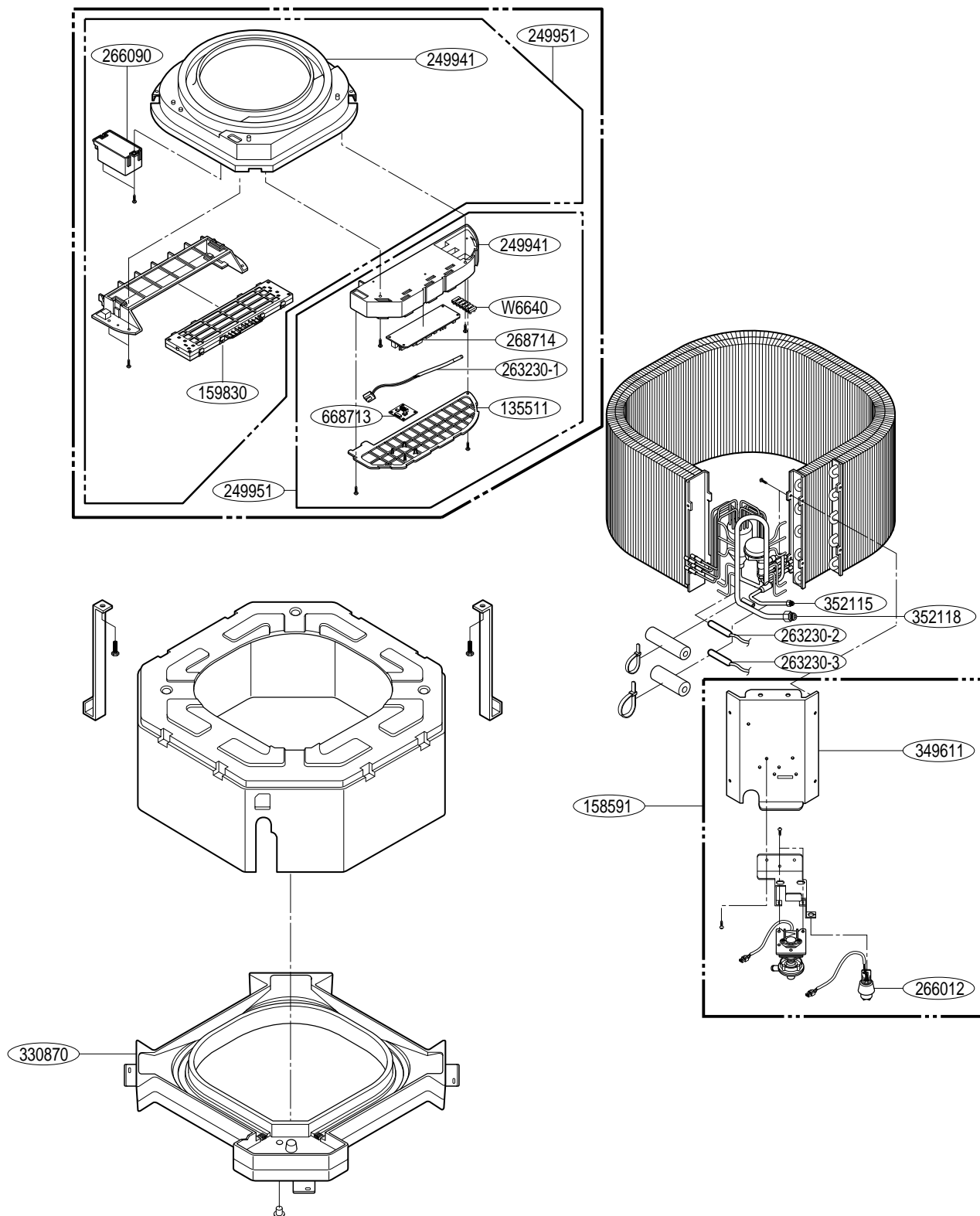
7. Exploded View & Replacement Parts List

TC

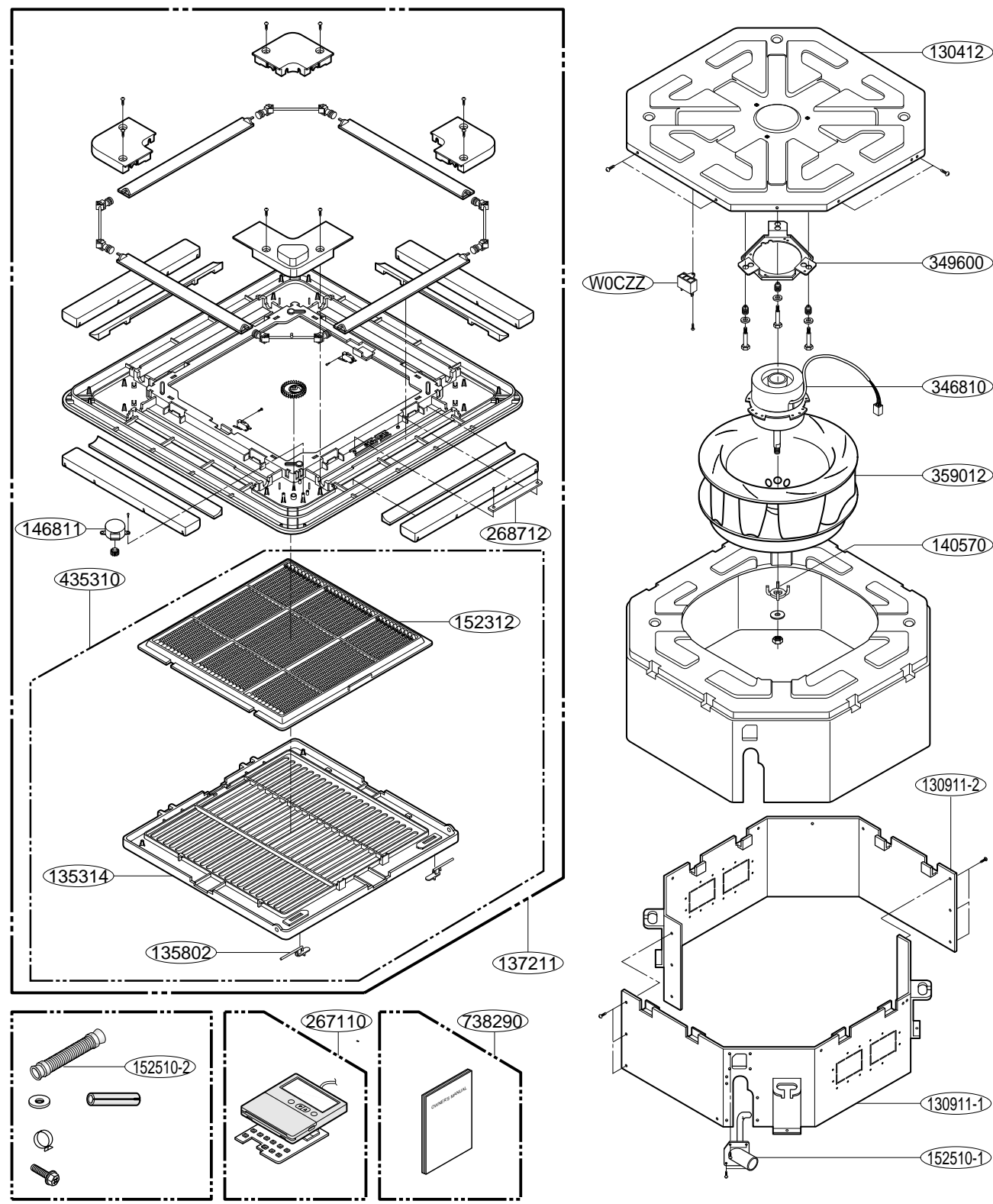


| LOCATION No. | DESCRIPTION | PART No. | | | REMARK |
|--------------|-------------------------------|-------------|-------------|-------------|--------|
| | | LRNN096TCA0 | LRNV092TCC0 | LRNV122TCC0 | |
| 130911 | CABINET ASSEMBLY,INDOOR | 3091A10024A | 3091A10024A | 3091A10024A | |
| 146811 | MOTOR ASSEMBLY,STEP | 4681AR2727G | 4681AR2727G | 4681AR2727G | |
| 152312 | FILTER ASSEMBLY,AIR CLEANER_1 | 5231A10003A | 5231A10003A | 5231A10003A | |
| 158591 | PUMP ASSEMBLY,WATER | 5859A10001A | 5859A10001A | 5859A10001A | |
| 137211 | PANEL ASSEMBLY,FRONT | 3721A10069K | 3721A10069J | 3721A10069J | |
| 249951 | CONTROL BOX ASSEMBLY,INDOOR | 4995A11006A | 4995A11006B | 4995A11006C | |
| 263230 | THERMISTOR ASSEMBLY(ROOM) | 6323AQ3214P | 6323AQ3214P | 6323AQ3214P | |
| 263230 | THERMISTOR ASSEMBLY(PIPE_IN) | 6323AQ3226E | 6323AQ3226E | 6323AQ3226E | |
| 263230 | THERMISTOR ASSEMBLY(PIPE_OUT) | 6323AQ3226V | 6323AQ3226V | 6323AQ3226V | |
| 266012 | SWITCH ASSEMBLY,FLOAT | 6601A20001E | 6601A20001E | 6601A20001E | |
| 267110 | REMOTE CONTROLLER ASSEMBLY | 6711A10002A | 6711A10002Q | 6711A10002Q | |
| 268712 | PWB(PCB) ASSEMBLY,DISPLAY | 6871A20096B | 6871A20096B | 6871A20096B | |
| 268714 | PWB(PCB)ASSEMBLY,MAIN | 6871A10187J | 6871A10148W | 6871A10148K | |
| 330870 | DRAIN PAN ASSEMBLY | 3087A10005A | 3087A10005A | 3087A10005A | |
| 346810 | MOTOR ASSEMBLY,INDOOR | 4681A20003V | 4681A20003V | 4681A20003V | |
| 352115 | TUBE ASSEMBLY,EVAPORATOR IN | 5211A10303A | 5211A10303A | 5211A10303A | |
| 352116 | TUBE ASSEMBLY,EVAPORATOR OUT | 5211A20230D | 5211A20230D | 5211A20230D | |
| 354210 | EVAPORATOR ASSEMBLY,FIRST | 5421A10011A | 5421A10011A | 5421A10011A | |
| 359011 | FAN ASSEMBLY,CROSS FLOW | 5901AR2441A | 5901AR2441A | 5901AR2441A | |
| 435310 | GRILLE ASSEMBLY,INLET | 3531A10062D | 3531A10062D | 3531A10062D | |
| W0CZZ | CAPACITOR,DRAWING | 3H00671E | 3H00671E | 3H00671E | |
| 152510 | DRAIN TUBE ASSEMBLY_1 | 5251AP2984A | 5251AP2984A | 5251AP2984A | |
| 152510 | DRAIN ASSEMBLY,TUBE_2 | 5251A20001A | 5251A20001A | 5251A20001A | |
| 266090 | H.V ASSEMBLY | - | 6609A20005C | 6609A20005C | |
| 159830 | AIR CLEANER ASSEMBLY | - | 5983A10006C | 5983A10006C | |

| LOCATION No. | DESCRIPTION | PART No. | | | | REMARK |
|-----------------|-------------------------------|-------------|-------------|-------------|-------------|--------|
| | | LRNN076TCA0 | LRNV092TCA0 | LRNN126TCA0 | LRNV126TCA0 | |
| 130911 | CABINET ASSEMBLY,INDOOR | 3091A10024A | 3091A10024A | 3091A10024A | 3091A10024A | |
| 146811 | MOTOR ASSEMBLY,STEP | 4681AR2727G | 4681AR2727G | 4681AR2727G | 4681AR2727G | |
| 152312 | FILTER ASSEMBLY,AIR CLEANER_1 | 5231A10003A | 5231A10003A | 5231A10003A | 5231A10003A | |
| 158591 | PUMP ASSEMBLY,WATER | 5859A10001A | 5859A10001A | 5859A10001A | 5859A10001A | |
| 137211 | PANEL ASSEMBLY,FRONT | 3721A10069K | 3721A10069H | 3721A10069K | 3721A10069H | |
| 249951 | CONTROL BOX ASSEMBLY,INDOOR | 4995A11006D | 4995A11006B | 4995A11006G | 4995A11006H | |
| 263230 | THERMISTOR ASSEMBLY(ROOM) | 6323AQ3214P | 6323AQ3214P | 6323AQ3214P | 6323AQ3214P | |
| 263230 | THERMISTOR ASSEMBLY(PIPE_IN) | 6323AQ3226E | 6323AQ3226E | 6323AQ3226E | 6323AQ3226E | |
| 263230 | THERMISTOR ASSEMBLY(PIPE_OUT) | 6323AQ3226V | 6323AQ3226V | 6323AQ3226V | 6323AQ3226V | |
| 266012 | SWITCH ASSEMBLY,FLOAT | 6601A20001E | 6601A20001E | 6601A20001E | 6601A20001E | |
| 267110 | REMOTE CONTROLLER ASSEMBLY | 6711A10002A | 6711A20081M | 6711A10002A | 6711A20081M | |
| 268712 | PWB(PCB) ASSEMBLY,DISPLAY | 6871A20096B | 6871A20096B | 6871A20096B | 6871A20096B | |
| 268714 | PWB(PCB)ASSEMBLY,MAIN | 6871A10187H | 6871A10148W | 6871A10187K | 6871A10187Z | |
| 330870 | DRAIN PAN ASSEMBLY | 3087A10005A | 3087A10005A | 3087A10005A | 3087A10005A | |
| 346810 | MOTOR ASSEMBLY,INDOOR | 4681A20003V | 4681A20003V | 4681A20003V | 4681A20003V | |
| 352115 | TUBE ASSEMBLY,EVAPORATOR IN | 5211A10303A | 5211A10303A | 5211A10303A | 5211A10303A | |
| 352116 | TUBE ASSEMBLY,EVAPORATOR OUT | 5211A20230D | 5211A20230D | 5211A20230D | 5211A20230D | |
| 354210 | EVAPORATOR ASSEMBLY,FIRST | 5421A10011B | 5421A10011A | 5421A10011A | 5421A10011A | |
| 359011 | FAN ASSEMBLY,CROSS FLOW | 5901AR2441A | 5901AR2441A | 5901AR2441A | 5901AR2441A | |
| 435310 | GRILLE ASSEMBLY,INLET | 3531A10062D | 3531A10062D | 3531A10062D | 3531A10062D | |
| W0CZZ | CAPACITOR,DRAWING | 3H00671E | 3H00671E | 3H00671E | 3H00671E | |
| 152510 | DRAIN TUBE ASSEMBLY_1 | 5251AP2984A | 5251AP2984A | 5251AP2984A | 5251AP2984A | |
| 152510 | DRAIN ASSEMBLY,TUBE_2 | 5251A20001A | 5251A20001A | 5251A20001A | 5251A20001A | |
| 266090 | H.V ASSEMBLY | - | - | - | - | |
| 159830 | AIR CLEANER ASSEMBLY | - | - | - | - | |



Exploded View & Replacement Parts List



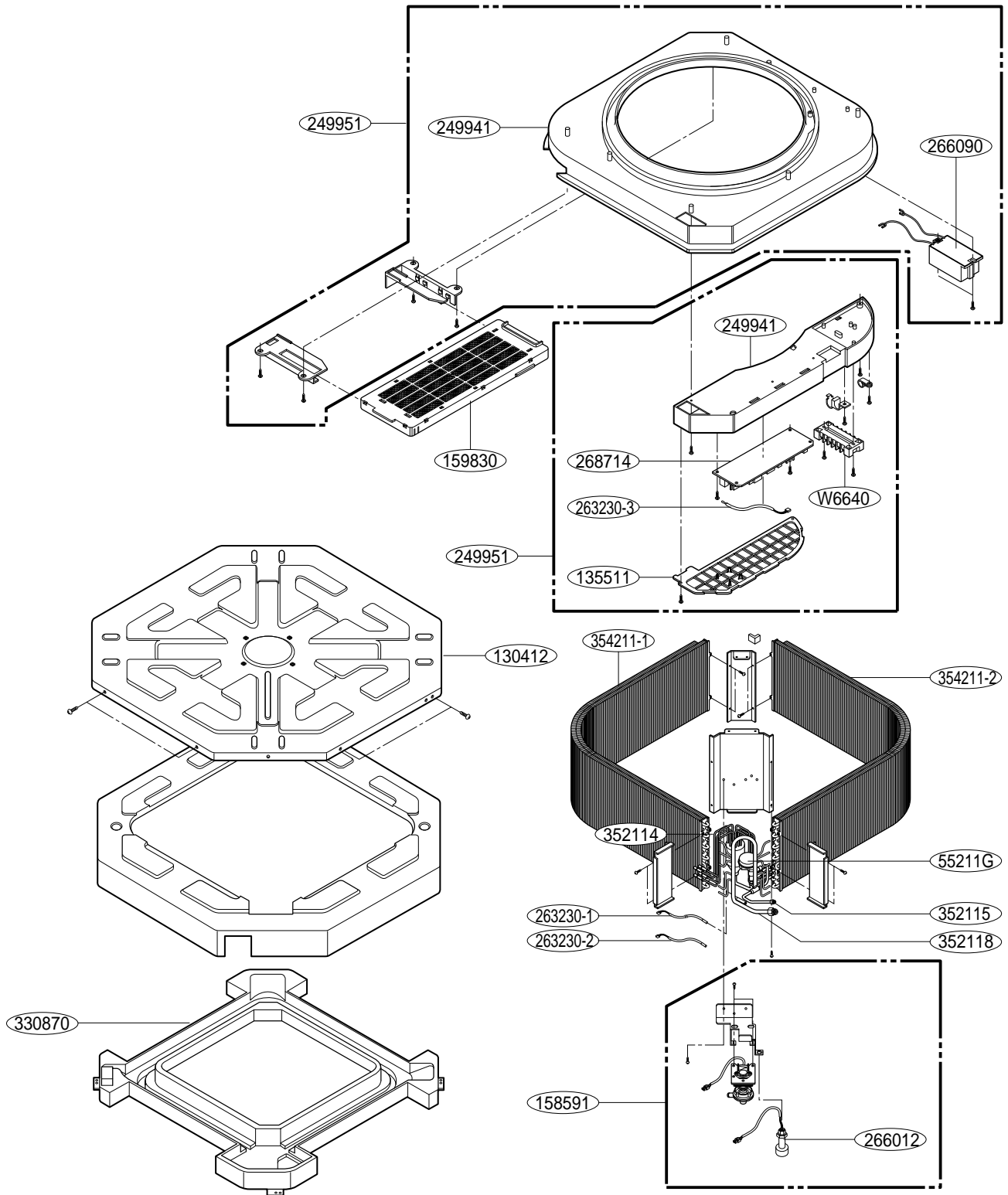
Exploded View & Replacement Parts List

| LOCATION No. | DESCRIPTION | PART No. | | | | REMARK |
|--------------|--------------------------------|-------------|-------------|-------------|-------------|--------|
| | | LRNV126TEA0 | LRNN126TEA0 | LRNV186TEA0 | LRNN186TEA0 | |
| 130412 | BASE ASSEMBLY,WELD[INDOOR] | 3041A10013A | 3041A10013A | 3041A10013A | 3041A10013A | |
| 130911 | CABINET ASSEMBLY,INDOOR | 3091A10023C | 3091A10023C | 3091A10023C | 3091A10023C | |
| 130911 | CABINET ASSEMBLY,INDOOR | 3091A10023D | 3091A10023D | 3091A10023D | 3091A10023D | |
| 135314 | GRILLE,INLET | 3530A10065A | 3530A10065A | 3530A10065A | 3530A10065A | |
| 137211 | PANEL ASSY,FRONT(INDOOR) | 3721A10021C | 3721A10021A | 3721A10021C | 3721A10021A | |
| 135511 | COVER | 3550A20034A | 3550A20034A | 3550A20034A | 3550A20034A | |
| 135802 | DOOR | 3580A20005A | 3580A20005A | 3580A20005A | 3580A20005A | |
| 140570 | LOCKER | 4056A20001A | 4056A20001A | 4056A20001A | 4056A20001A | |
| 146811 | MOTOR ASSEMBLY,STEP | 4681AP2968D | 4681AP2968D | 4681AP2968D | 4681AP2968D | |
| 152312 | FILTER ASSY,AIR CLEANER | 5231A10005A | 5231A10005A | 5231A10005A | 5231A10005A | |
| 152510 | DRAIN ASSY,TUBE | 5251A20002A | 5251A20002A | 5251A20002A | 5251A20002A | |
| 152510 | HOSE ASSEMBLY,DRAIN | 5251AP2984A | 5251AP2984A | 5251AP2984A | 5251AP2984A | |
| 158591 | PUMP ASSEMBLY,WATER | 5859A20001H | 5859A20001H | 5859A20001H | 5859A20001H | |
| 249941 | CONTROL BOX,INDOOR | 4994A10014A | 4994A10014A | 4994A10014A | 4994A10014A | |
| 249951 | CONTROL BOX ASSEMBLY,INDOOR | 4995A10083F | 4995A10083C | 4995A10083G | 4995A10083D | |
| 263230 | THERMISTOR ASSEMBLY | 6323A30002B | 6323A30002B | 6323A30002B | 6323A30002B | |
| 263230 | THERMISTOR ASSEMBLY | 6323A30004C | 6323A30004C | 6323A30004C | 6323A30004C | |
| 263230 | THERMISTOR ASSEMBLY | 6323AQ3226R | 6323AQ3226R | 6323AQ3226R | 6323AQ3226R | |
| 266012 | SWITCH ASSY,FLOAT | 6601A20001F | 6601A20001F | 6601A20001F | 6601A20001F | |
| 267110 | REMOTE CONTROLLER ASSEMBLY | 6711A20081M | 6711A20081J | 6711A20081M | 6711A20081J | |
| 268712 | PWB(PCB) ASSY,DISPLAY | 6871A20096C | 6871A20096C | 6871A20096C | 6871A20096C | |
| 268714 | PWB(PCB) ASSEMBLY,MAIN | 6871A10187N | 6871A10187L | 6871A10187P | 6871A10187M | |
| 330870 | DRAIN PAN ASSEMBLY | 3087A10002A | 3087A10002A | 3087A10002A | 3087A10002A | |
| 346810 | MOTOR ASSEMBLY,SINGLE | 4681AC2026E | 4681AC2026E | 4681AC2026D | 4681AC2026D | |
| 349600 | MOUNT,MOTOR | 4960A20010A | 4960A20010A | 4960A20010A | 4960A20010A | |
| 352115 | TUBE ASSEMBLY,EVAPORATOR IN | 5211A10335B | 5211A10335B | 5211A10335A | 5211A10335A | |
| 352118 | TUBE ASSEMBLY,MENIFOLD(INDOOR) | 5211A20241N | 5211A20241N | 5211A20241P | 5211A20241P | |
| 354211 | EVAPORATOR ASSY,BENDING | 5421A10006A | 5421A10006A | 5421A10006B | 5421A10006B | |
| 359012 | FAN,TURBO | 5900A10004A | 5900A10004A | 5900A10004A | 5900A10004A | |
| 435310 | GRILLE ASSEMBLY,FRONT(INDOOR) | 3531A10059A | 3531A10059A | 3531A10059A | 3531A10059A | |
| W0CZZ | CAPACITOR,DRAWING | 3H00660N | 3H00660N | 3H00660N | 3H00660N | |
| W6640 | TERMINAL BLOCK | 6640W3A009B | 6640W3A009B | 6640W3A009B | 6640W3A009B | |

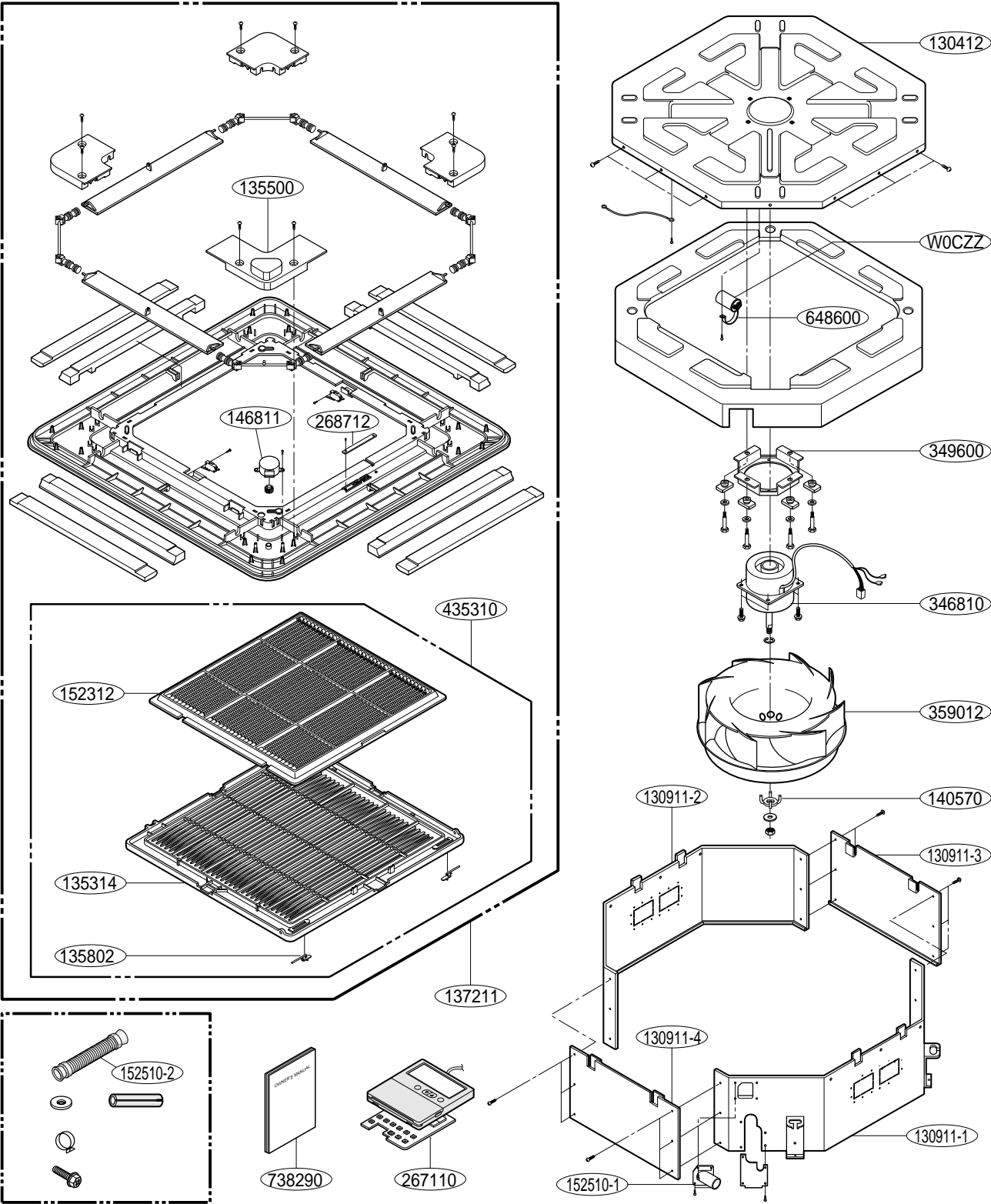
Exploded View & Replacement Parts List

| LOCATION No. | DESCRIPTION | PART No. | REMARK |
|--------------|--------------------------------|-------------|--------|
| | | LRNV182TEC0 | |
| 130412 | BASE ASSEMBLY,WELD[INDOOR] | 3041A10013A | |
| 130911 | CABINET ASSEMBLY,INDOOR | 3091A10023C | |
| 130911 | CABINET ASSEMBLY,INDOOR | 3091A10023D | |
| 135314 | GRILLE,INLET | 3530A10065A | |
| 135511 | COVER | 3550A20034A | |
| 135802 | DOOR | 3580A20005A | |
| 137211 | PANEL ASSEMBLY,FRONT(INDOOR) | 3721A10021S | |
| 140570 | LOCKER | 4056A20001A | |
| 146811 | MOTOR ASSEMBLY,STEP | 4681AP2968D | |
| 152312 | FILTER ASSY,AIR CLEANER | 5231A10005A | |
| 152510 | DRAIN ASSY,TUBE | 5251A20002A | |
| 152510 | HOSE ASSEMBLY,DRAIN | 5251AP2984A | |
| 158591 | PUMP ASSEMBLY,WATER | 5859A20001H | |
| 159830 | AIR CLEANER ASSEMBLY | 5983A10002C | |
| 249951 | CONTROL BOX ASSEMBLY,INDOOR | 4995A10083E | |
| 249951 | CONTROL BOX ASSEMBLY,INDOOR | 4995A20168B | |
| 263230 | THERMISTOR ASSEMBLY | 6323A30002B | |
| 263230 | THERMISTOR ASSEMBLY | 6323A30004C | |
| 263230 | THERMISTOR ASSEMBLY | 6323AQ3226R | |
| 266012 | SWITCH ASSY,FLOAT | 6601A20001F | |
| 266090 | H.V ASSEMBLY | 6609A20005C | |
| 267110 | REMOTE CONTROLLER ASSEMBLY | 6711A10002Q | |
| 268712 | PWB(PCB) ASSY,DISPLAY | 6871A20096C | |
| 268714 | PWB(PCB) ASSEMBLY,MAIN | 6871A10148U | |
| 330870 | DRAIN PAN ASSEMBLY | 3087A10002A | |
| 346810 | MOTOR ASSEMBLY,SINGLE | 4681AC2026D | |
| 349600 | MOUNT,MOTOR | 4960A20010A | |
| 352115 | TUBE ASSEMBLY,EVAPORATOR IN | 5211A10335A | |
| 352118 | TUBE ASSEMBLY,MENIFOLD(INDOOR) | 5211A20241P | |
| 354211 | EVAPORATOR ASSY,BENDING | 5421A10006B | |
| 359012 | FAN,TURBO | 5900A10004A | |
| 435310 | GRILLE ASSEMBLY,FRONT(INDOOR) | 3531A10059A | |
| W0CZZ | CAPACITOR,DRAWING | 3H00660N | |
| W6640 | TERMINAL BLOCK | 6640W3A009B | |

TD



Exploded View & Replacement Parts List



| LOCATION NO. | DESCRIPTION | PART NO. | | | | REMARK |
|--------------|--------------------------------|-------------|-------------|-------------|-------------|--------|
| | | LRNN216TDA0 | LRNN212TDA0 | LRNV246TDA0 | LRNN246TDA0 | |
| 130412 | BASE ASSEMBLY,WELD[INDOOR] | 3041A10016A | 3041A10016A | 3041A10016A | 3041A10016A | |
| 130911 | CABINET ASSEMBLY,WELD | 3091A10030A | 3091A10030A | 3091A10030D | 3091A10030A | |
| 130911 | CABINET ASSEMBLY,WELD | 3091A10030B | 3091A10030B | 3091A10030E | 3091A10030B | |
| 130911 | CABINET ASSY,INDOOR | 3091A10031A | 3091A10031A | 3091A10031C | 3091A10031A | |
| 130911 | CABINET ASSY,INDOOR | 3091A10031B | 3091A10031B | 3091A10031D | 3091A10031B | |
| 137211 | PANEL ASSEMBLY,FRONT(INDOOR) | 3721A10025A | 3721A10025A | 3721A10025B | 3721A10025A | |
| 135511 | COVER | 3550A20050A | 3550A20050A | 3550A20050A | 3550A20050A | |
| 135802 | DOOR | 3580A20005A | 3580A20005A | 3580A20005A | 3580A20005A | |
| 140570 | LOCKER | 4056A20001B | 4056A20001B | 4056A20001B | 4056A20001B | |
| 146811 | MOTOR ASSEMBLY,STEP | 4681A20055A | 4681A20055A | 4681A20055A | 4681A20055A | |
| 152510 | DRAIN ASSEMBLY,TUBE | 5251A20002B | 5251A20002B | 5251A20002B | 5251A20002B | |
| 158591 | PUMP,WATER | 5858A10001G | 5858A10001G | 5858A10001G | 5858A10001G | |
| 158591 | PUMP ASSEMBLY,WATER | 5859A20001D | 5859A20001D | 5859A20001D | 5859A20001D | |
| 249941 | CONTROL BOX,INDOOR | 4994A10020A | 4994A10020A | 4994A10020A | 4994A10020A | |
| 249951 | CONTROL BOX ASSEMBLY,INDOOR | 4995A10152G | 4995A10106A | 4995A10152R | 4995A10152H | |
| 263230 | THERMISTOR ASSEMBLY | 6323A30002A | 6323A30002A | 6323A30002A | 6323A30002A | |
| 263230 | THERMISTOR ASSEMBLY | 6323A30004C | 6323A30004C | 6323A30004C | 6323A30004C | |
| 263230 | THERMISTOR ASSEMBLY | 6323AQ3226T | 6323AQ3226T | 6323AQ3226T | 6323AQ3226T | |
| 266012 | SWITCH ASSY,FLOAT | 6601A20001F | 6601A20001F | 6601A20001F | 6601A20001F | |
| 152312 | FILTER ASSY,AIR CLEANER | 5231A10004A | 5231A10004A | 5231A10004A | 5231A10004A | |
| 152510 | HOSE ASSEMBLY,DRAIN | 5251AP2984A | 5251AP2984A | 5251AP2984A | 5251AP2984A | |
| 267110 | REMOTE CONTROLLER ASSEMBLY | 6711A20081J | 6711A20081J | 6711A20081M | 6711A20081J | |
| 268712 | PWB(PCB) ASSY,DISPLAY | 6871A20096C | 6871A20096C | 6871A20096C | 6871A20096C | |
| 268714 | PWB(PCB) ASSEMBLY,MAIN | 6871A10187D | 6871A10148D | 6871A10187R | 6871A10187E | |
| 330870 | DRAIN PAN ASSEMBLY | 3087A10006A | 3087A10006B | 3087A10006A | 3087A10006A | |
| 346810 | MOTOR ASSEMBLY,INDOOR | 4681A20006J | 4681A20006T | 4681A20006J | 4681A20006J | |
| 349600 | MOUNT,MOTOR | 4960AP7265A | 4960AP7265A | 4960AP7265A | 4960AP7265A | |
| 352114 | TUBE ASSEMBLY,DISTRIBUTOR | 5211A10299A | 5211A10299A | 5211A10299A | 5211A10299A | |
| 352118 | TUBE ASSEMBLY,MENIFOLD(INDOOR) | 5211A20251B | 5211A20251B | 5211A20251B | 5211A20251B | |
| 352118 | TUBE ASSEMBLY,MENIFOLD(INDOOR) | 5211A20251H | 5211A20251H | 5211A20251H | 5211A20251H | |
| 354211 | EVAPORATOR ASSY,BENDING | 5421A10016A | 5421A10016A | 5421A10016A | 5421A10016A | |
| 354211 | EVAPORATOR ASSY,BENDING | 5421A10016B | 5421A10016B | 5421A10016B | 5421A10016B | |
| 359012 | FAN ASSEMBLY,TURBO | 5900A10003B | 5900A10003B | 5900A10003B | 5900A10003B | |
| 435310 | GRILLE ASSY,INLET | 3531A10066A | 3531A10066A | 3531A10066A | 3531A10066A | |
| 55211G | TUBE ASSEMBLY,EXPANSION | 5211A10298A | 5211A10298A | 5211A10298A | 5211A10298A | |
| 648600 | CLAMP,CAPACITOR | 4H00442C | 4H00442C | 4H00442C | 4H00442C | |
| W0CZZ | CAPACITOR,DRAWING | 3H00660M | 3H00660M | 3H00660M | 3H00660M | |
| W6640 | TERMINAL BLOCK | 6640W3A009A | 6640W3A009A | 6640W3A009A | 6640W3A009A | |

Exploded View & Replacement Parts List

| LOCATION NO. | DESCRIPTION | PART NO. | | | | REMARK |
|--------------|--------------------------------|-------------|-------------|-------------|-------------|--------|
| | | LRNN242TDA0 | LRNV286TDA0 | LRNN286TDA0 | LRNV282TDA0 | |
| 130412 | BASE ASSEMBLY,WELD[INDOOR] | 3041A10016A | 3041A10016A | 3041A10016A | 3041A10016A | |
| 130911 | CABINET ASSEMBLY,WELD | 3091A10030A | 3091A10030D | 3091A10030A | 3091A10030A | |
| 130911 | CABINET ASSEMBLY,WELD | 3091A10030B | 3091A10030E | 3091A10030B | 3091A10030B | |
| 130911 | CABINET ASSY,INDOOR | 3091A10031A | 3091A10031C | 3091A10031A | 3091A10031A | |
| 130911 | CABINET ASSY,INDOOR | 3091A10031B | 3091A10031D | 3091A10031B | 3091A10031B | |
| 137211 | PANEL ASSEMBLY,FRONT(INDOOR) | 3721A10025A | 3721A10025B | 3721A10025A | 3721A10025B | |
| 135511 | COVER | 3550A20050A | 3550A20050A | 3550A20050A | 3550A20050A | |
| 135802 | DOOR | 3580A20005A | 3580A20005A | 3580A20005A | 3580A20005A | |
| 140570 | LOCKER | 4056A20001B | 4056A20001B | 4056A20001B | 4056A20001B | |
| 146811 | MOTOR ASSEMBLY,STEP | 4681A20055A | 4681A20055A | 4681A20055A | 4681A20055A | |
| 152510 | DRAIN ASSEMBLY,TUBE | 5251A20002B | 5251A20002B | 5251A20002B | 5251A20002B | |
| 158591 | PUMP,WATER | 5858A10001G | 5858A10001G | 5858A10001G | 5858A10001G | |
| 158591 | PUMP ASSEMBLY,WATER | 5859A20001D | 5859A20001D | 5859A20001D | 5859A20001D | |
| 249941 | CONTROL BOX,INDOOR | 4994A10020A | 4994A10020A | 4994A10020A | 4994A10020A | |
| 249951 | CONTROL BOX ASSEMBLY,INDOOR | 4995A10106B | 4995A10152S | 4995A10152A | 4995A10152P | |
| 263230 | THERMISTOR ASSEMBLY | 6323A30002A | 6323A30002A | 6323A30002A | 6323A30002A | |
| 263230 | THERMISTOR ASSEMBLY | 6323A30004C | 6323A30004C | 6323A30004C | 6323A30004C | |
| 263230 | THERMISTOR ASSEMBLY | 6323AQ3226T | 6323AQ3226T | 6323AQ3226T | 6323AQ3226T | |
| 266012 | SWITCH ASSY,FLOAT | 6601A20001F | 6601A20001F | 6601A20001F | 6601A20001F | |
| 152312 | FILTER ASSY,AIR CLEANER | 5231A10004A | 5231A10004A | 5231A10004A | 5231A10004A | |
| 152510 | HOSE ASSEMBLY,DRAIN | 5251AP2984A | 5251AP2984A | 5251AP2984A | 5251AP2984A | |
| 267110 | REMOTE CONTROLLER ASSEMBLY | 6711A20081J | 6711A20081M | 6711A20081J | 6711A20081M | |
| 268712 | PWB(PCB) ASSY,DISPLAY | 6871A20096C | 6871A20096C | 6871A20096C | 6871A20096C | |
| 268714 | PWB(PCB) ASSEMBLY,MAIN | 6871A10148E | 6871A10187S | 6871A10187A | 6871A10148P | |
| 330870 | DRAIN PAN ASSEMBLY | 3087A10006B | 3087A10006A | 3087A10006A | 3087A10006F | |
| 346810 | MOTOR ASSEMBLY,INDOOR | 4681A20006T | 4681A20006J | 4681A20006J | 4681A20006R | |
| 349600 | MOUNT,MOTOR | 4960AP7265A | 4960AP7265A | 4960AP7265A | 4960AP7265A | |
| 352114 | TUBE ASSEMBLY,DISTRIBUTOR | 5211A10299A | 5211A10299A | 5211A10299A | 5211A10299A | |
| 352118 | TUBE ASSEMBLY,MENIFOLD(INDOOR) | 5211A20251B | 5211A20251B | 5211A20251B | 5211A20251B | |
| 352118 | TUBE ASSEMBLY,MENIFOLD(INDOOR) | 5211A20251H | 5211A20251H | 5211A20251H | 5211A20251H | |
| 354211 | EVAPORATOR ASSY,BENDING | 5421A10016A | 5421A10016A | 5421A10016A | 5421A10016A | |
| 354211 | EVAPORATOR ASSY,BENDING | 5421A10016B | 5421A10016B | 5421A10016B | 5421A10016B | |
| 359012 | FAN ASSEMBLY,TURBO | 5900A10003B | 5900A10003B | 5900A10003B | 5900A10003B | |
| 435310 | GRILLE ASSY,INLET | 3531A10066A | 3531A10066A | 3531A10066A | 3531A10066A | |
| 55211G | TUBE ASSEMBLY,EXPANSION | 5211A10298A | 5211A10298B | 5211A10298B | 5211A10298B | |
| 648600 | CLAMP,CAPACITOR | 4H00442C | 4H00442C | 4H00442C | 4H00442C | |
| W0CZZ | CAPACITOR,DRAWING | 3H00660M | 3H00660M | 3H00660M | 2A00986D | |
| W6640 | TERMINAL BLOCK | 6640W3A009A | 6640W3A009A | 6640W3A009A | 6640W3A009A | |

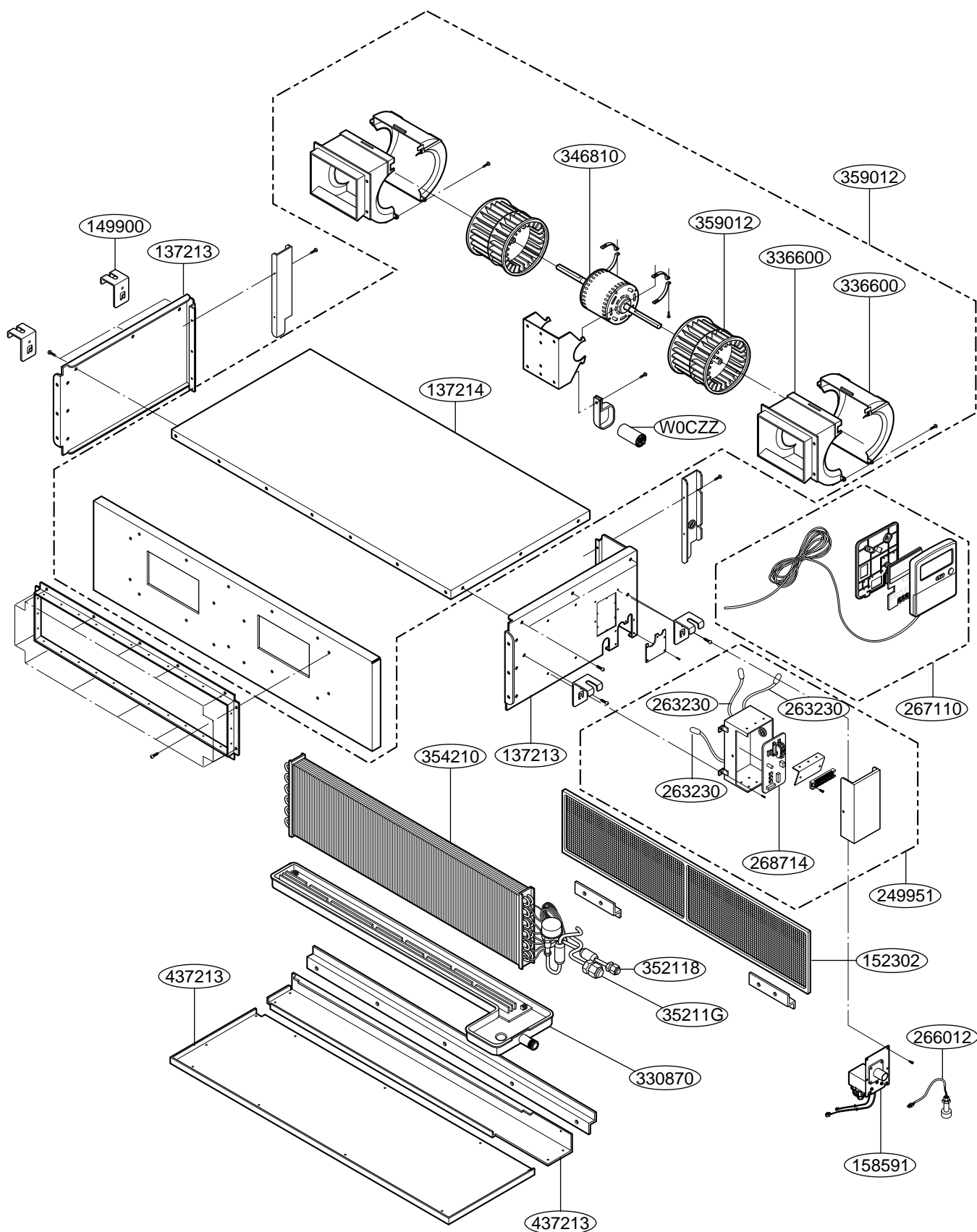
| LOCATION NO. | DESCRIPTION | PART NO. | | | | REMARK |
|--------------|--------------------------------|-------------|-------------|-------------|-------------|--------|
| | | LRNV366TDA0 | LRNN366TDA0 | LRNV362TDA0 | LRNN362TDA0 | |
| 130412 | BASE ASSEMBLY,WELD[INDOOR] | 3041A10016A | 3041A10016A | 3041A10016A | 3041A10016A | |
| 130911 | CABINET ASSEMBLY,WELD | 3091A10030D | 3091A10030A | 3091A10031A | 3091A10030A | |
| 130911 | CABINET ASSEMBLY,WELD | 3091A10030E | 3091A10030B | 3091A10031B | 3091A10030B | |
| 130911 | CABINET ASSY,INDOOR | 3091A10031C | 3091A10031A | 3091A10030A | 3091A10031A | |
| 130911 | CABINET ASSY,INDOOR | 3091A10031D | 3091A10031B | 3091A10030B | 3091A10031B | |
| 137211 | PANEL ASSEMBLY,FRONT(INDOOR) | 3721A10025B | 3721A10025A | 3721A10025B | 3721A10025A | |
| 135511 | COVER | 3550A20050A | 3550A20050A | 3550A20050A | 3550A20050A | |
| 135802 | DOOR | 3580A20005A | 3580A20005A | 3580A20005A | 3580A20005A | |
| 140570 | LOCKER | 4056A20001B | 4056A20001B | 4056A20001B | 4056A20001B | |
| 146811 | MOTOR ASSEMBLY,STEP | 4681A20055A | 4681A20055A | 4681A20055A | 4681A20055A | |
| 152510 | DRAIN ASSEMBLY,TUBE | 5251A20002B | 5251A20002B | 5251A20002B | 5251A20002B | |
| 158591 | PUMP,WATER | 5858A10001G | 5858A10001G | 5858A10001G | 5858A10001G | |
| 158591 | PUMP ASSEMBLY,WATER | 5859A20001D | 5859A20001D | 5859A20001D | 5859A20001D | |
| 249941 | CONTROL BOX,INDOOR | 4994A10020A | 4994A10020A | 4994A10020A | 4994A10020A | |
| 249951 | CONTROL BOX ASSEMBLY,INDOOR | 4995A10152J | 4995A10152B | 4995A10106X | 4995A10106D | |
| 263230 | THERMISTOR ASSEMBLY | 6323A30002A | 6323A30002A | 6323A30002A | 6323A30002A | |
| 263230 | THERMISTOR ASSEMBLY | 6323A30004C | 6323A30004C | 6323A30004C | 6323A30004C | |
| 263230 | THERMISTOR ASSEMBLY | 6323AQ3226T | 6323AQ3226T | 6323AQ3226T | 6323AQ3226T | |
| 266012 | SWITCH ASSY,FLOAT | 6601A20001F | 6601A20001F | 6601A20001F | 6601A20001F | |
| 152312 | FILTER ASSY,AIR CLEANER | 5231A10004A | 5231A10004A | 5231A10004A | 5231A10004A | |
| 152510 | HOSE ASSEMBLY,DRAIN | 5251AP2984A | 5251AP2984A | 5251AP2984A | 5251AP2984A | |
| 267110 | REMOTE CONTROLLER ASSEMBLY | 6711A20081M | 6711A20081J | 6711A20081M | 6711A20081J | |
| 268712 | PWB(PCB) ASSY,DISPLAY | 6871A20096C | 6871A20096C | 6871A20096C | 6871A20096C | |
| 268714 | PWB(PCB) ASSEMBLY,MAIN | 6871A10187T | 6871A10187B | 6871A10148Q | 6871A10148G | |
| 330870 | DRAIN PAN ASSEMBLY | 3087A10006A | 3087A10006A | 3087A10006A | 3087A10006B | |
| 346810 | MOTOR ASSEMBLY,INDOOR | 4681A20006J | 4681A20006J | 4681A20006K | 4681A20006K | |
| 349600 | MOUNT,MOTOR | 4960AP7265A | 4960AP7265A | 4960AP7265A | 4960AP7265A | |
| 352114 | TUBE ASSEMBLY,DISTRIBUTOR | 5211A10299A | 5211A10299A | 5211A10299A | 5211A10299A | |
| 352118 | TUBE ASSEMBLY,MENIFOLD(INDOOR) | 5211A20251B | 5211A20251B | 5211A20251B | 5211A20251B | |
| 352118 | TUBE ASSEMBLY,MENIFOLD(INDOOR) | 5211A20251G | 5211A20251G | 5211A20251G | 5211A20251G | |
| 354211 | EVAPORATOR ASSY,BENDING | 5421A10016A | 5421A10016A | 5421A10016A | 5421A10016A | |
| 354211 | EVAPORATOR ASSY,BENDING | 5421A10016B | 5421A10016B | 5421A10016B | 5421A10016B | |
| 359012 | FAN ASSEMBLY,TURBO | 5900A10003B | 5900A10003B | 5900A10003B | 5900A10003B | |
| 435310 | GRILLE ASSY,INLET | 3531A10066A | 3531A10066A | 3531A10066A | 3531A10066A | |
| 55211G | TUBE ASSEMBLY,EXPANSION | 5211A10298B | 5211A10298B | 5211A10298B | 5211A10298B | |
| 648600 | CLAMP,CAPACITOR | 4H00442C | 4H00442C | 4H00442C | 4H00442C | |
| W0CZZ | CAPACITOR,DRAWING | 2A00986D | 3H00660M | 2A00986D | 2A00986D | |
| W6640 | TERMINAL BLOCK | 6640W3A009A | 6640W3A009A | 6640W3A009A | 6640W3A009A | |

Exploded View & Replacement Parts List

| LOCATION NO. | DESCRIPTION | PART NO. | | | REMARK |
|--------------|--------------------------------|-------------|-------------|-------------|--------|
| | | LRNN386TDA0 | LRNN426TDA0 | LRNV482TDA0 | |
| 130412 | BASE ASSEMBLY,WELD[INDOOR] | 3041A10016A | 3041A10016A | 3041A10016A | |
| 130911 | CABINET ASSEMBLY,WELD | 3091A10030A | 3091A10030A | 3091A10031A | |
| 130911 | CABINET ASSEMBLY,WELD | 3091A10030B | 3091A10030B | 3091A10031B | |
| 130911 | CABINET ASSY,INDOOR | 3091A10031A | 3091A10031A | 3091A10030A | |
| 130911 | CABINET ASSY,INDOOR | 3091A10031B | 3091A10031B | 3091A10030B | |
| 137211 | PANEL ASSEMBLY,FRONT(INDOOR) | 3721A10025A | 3721A10025A | 3721A10025B | |
| 135511 | COVER | 3550A20050A | 3550A20050A | 3550A20050A | |
| 135802 | DOOR | 3580A20005A | 3580A20005A | 3580A20005A | |
| 140570 | LOCKER | 4056A20001B | 4056A20001B | 4056A20001B | |
| 146811 | MOTOR ASSEMBLY,STEP | 4681A20055A | 4681A20055A | 4681A20055A | |
| 152510 | DRAIN ASSEMBLY,TUBE | 5251A20002B | 5251A20002B | 5251A20002B | |
| 158591 | PUMP,WATER | 5858A10001G | 5858A10001G | 5858A10001G | |
| 158591 | PUMP ASSEMBLY,WATER | 5859A20001D | 5859A20001D | 5859A20001D | |
| 249941 | CONTROL BOX,INDOOR | 4994A10020A | 4994A10020A | 4994A10020A | |
| 249951 | CONTROL BOX ASSEMBLY,INDOOR | 4995A10152C | 4995A10152U | 4995A10106Z | |
| 263230 | THERMISTOR ASSEMBLY | 6323A30002A | 6323A30002A | 6323A30002A | |
| 263230 | THERMISTOR ASSEMBLY | 6323A30004C | 6323A30004C | 6323A30004C | |
| 263230 | THERMISTOR ASSEMBLY | 6323AQ3226T | 6323AQ3226T | 6323AQ3226T | |
| 266012 | SWITCH ASSY,FLOAT | 6601A20001F | 6601A20001F | 6601A20001F | |
| 152312 | FILTER ASSY,AIR CLEANER | 5231A10004A | 5231A10004A | 5231A10004A | |
| 152510 | HOSE ASSEMBLY,DRAIN | 5251AP2984A | 5251AP2984A | 5251AP2984A | |
| 267110 | REMOTE CONTROLLER ASSEMBLY | 6711A20081J | 6711A20081J | 6711A20081M | |
| 268712 | PWB(PCB) ASSY,DISPLAY | 6871A20096C | 6871A20096C | 6871A20096C | |
| 268714 | PWB(PCB) ASSEMBLY,MAIN | 6871A10187C | 6871A10187F | 6871A10148T | |
| 330870 | DRAIN PAN ASSEMBLY | 3087A10006A | 3087A10006A | 3087A10006A | |
| 346810 | MOTOR ASSEMBLY,INDOOR | 4681A20006J | 4681A20006H | 4681A20006K | |
| 349600 | MOUNT,MOTOR | 4960AP7265A | 4960AP7265A | 4960AP7265A | |
| 352114 | TUBE ASSEMBLY,DISTRIBUTOR | 5211A10299A | 5211A10299A | 5211A10299A | |
| 352118 | TUBE ASSEMBLY,MENIFOLD(INDOOR) | 5211A20251B | 5211A20251B | 5211A20251B | |
| 352118 | TUBE ASSEMBLY,MENIFOLD(INDOOR) | 5211A20251G | 5211A20251G | 5211A20251G | |
| 354211 | EVAPORATOR ASSY,BENDING | 5421A10016A | 5421A10016A | 5421A10016A | |
| 354211 | EVAPORATOR ASSY,BENDING | 5421A10016B | 5421A10016B | 5421A10016B | |
| 359012 | FAN ASSEMBLY,TURBO | 5900A10003B | 5900A10003B | 5900A10003B | |
| 435310 | GRILLE ASSY,INLET | 3531A10066A | 3531A10066A | 3531A10066A | |
| 55211G | TUBE ASSEMBLY,EXPANSION | 5211A10298B | 5211A10298B | 5211A10298B | |
| 648600 | CLAMP,CAPACITOR | 4H00442C | 4H00442C | 4H00442C | |
| W0CZZ | CAPACITOR,DRAWING | 3H00660M | 2A00986D | 2A00986D | |
| W6640 | TERMINAL BLOCK | 6640W3A009A | 6640W3A009A | 6640W3A009A | |

| LOCATION NO. | DESCRIPTION | PART NO. | | REMARK |
|--------------|--------------------------------|-------------|-------------|--------|
| | | LRNV486TDA0 | LRNN486TDA0 | |
| 130412 | BASE ASSEMBLY,WELD[INDOOR] | 3041A10016A | 3041A10016A | |
| 130911 | CABINET ASSEMBLY,WELD | 3091A10030D | 3091A10030A | |
| 130911 | CABINET ASSEMBLY,WELD | 3091A10030E | 3091A10030B | |
| 130911 | CABINET ASSY,INDOOR | 3091A10031C | 3091A10031A | |
| 130911 | CABINET ASSY,INDOOR | 3091A10031D | 3091A10031B | |
| 137211 | PANEL ASSEMBLY,FRONT(INDOOR) | 3721A10025B | 3721A10025A | |
| 135511 | COVER | 3550A20050A | 3550A20050A | |
| 135802 | DOOR | 3580A20005A | 3580A20005A | |
| 140570 | LOCKER | 4056A20001B | 4056A20001B | |
| 146811 | MOTOR ASSEMBLY,STEP | 4681A20055A | 4681A20055A | |
| 152510 | DRAIN ASSEMBLY,TUBE | 5251A20002B | 5251A20002B | |
| 158591 | PUMP,WATER | 5858A10001G | 5858A10001G | |
| 158591 | PUMP ASSEMBLY,WATER | 5859A20001D | 5859A20001D | |
| 249941 | CONTROL BOX,INDOOR | 4994A10020A | 4994A10020A | |
| 249951 | CONTROL BOX ASSEMBLY,INDOOR | 4995A10152T | 4995A10152V | |
| 263230 | THERMISTOR ASSEMBLY | 6323A30002A | 6323A30002A | |
| 263230 | THERMISTOR ASSEMBLY | 6323A30004C | 6323A30004C | |
| 263230 | THERMISTOR ASSEMBLY | 6323AQ3226T | 6323AQ3226T | |
| 266012 | SWITCH ASSY,FLOAT | 6601A20001F | 6601A20001F | |
| 152312 | FILTER ASSY,AIR CLEANER | 5231A10004A | 5231A10004A | |
| 152510 | HOSE ASSEMBLY,DRAIN | 5251AP2984A | 5251AP2984A | |
| 267110 | REMOTE CONTROLLER ASSEMBLY | 6711A20081M | 6711A20081J | |
| 268712 | PWB(PCB) ASSY,DISPLAY | 6871A20096C | 6871A20096C | |
| 268714 | PWB(PCB) ASSEMBLY,MAIN | 6871A10187W | 6871A10187G | |
| 330870 | DRAIN PAN ASSEMBLY | 3087A10006A | 3087A10006A | |
| 346810 | MOTOR ASSEMBLY,INDOOR | 4681A20006H | 4681A20006H | |
| 349600 | MOUNT,MOTOR | 4960AP7265A | 4960AP7265A | |
| 352114 | TUBE ASSEMBLY,DISTRIBUTOR | 5211A10299A | 5211A10299A | |
| 352118 | TUBE ASSEMBLY,MENIFOLD(INDOOR) | 5211A20251B | 5211A20251B | |
| 352118 | TUBE ASSEMBLY,MENIFOLD(INDOOR) | 5211A20251G | 5211A20251G | |
| 354211 | EVAPORATOR ASSY,BENDING | 5421A10016A | 5421A10016A | |
| 354211 | EVAPORATOR ASSY,BENDING | 5421A10016B | 5421A10016B | |
| 359012 | FAN ASSEMBLY,TURBO | 5900A10003B | 5900A10003B | |
| 435310 | GRILLE ASSY,INLET | 3531A10066A | 3531A10066A | |
| 55211G | TUBE ASSEMBLY,EXPANSION | 5211A10298B | 5211A10298B | |
| 648600 | CLAMP,CAPACITOR | 4H00442C | 4H00442C | |
| W0CZZ | CAPACITOR,DRAWING | 2A00986D | 3H00660M | |
| W6640 | TERMINAL BLOCK | 6640W3A009A | 6640W3A009A | |

BH

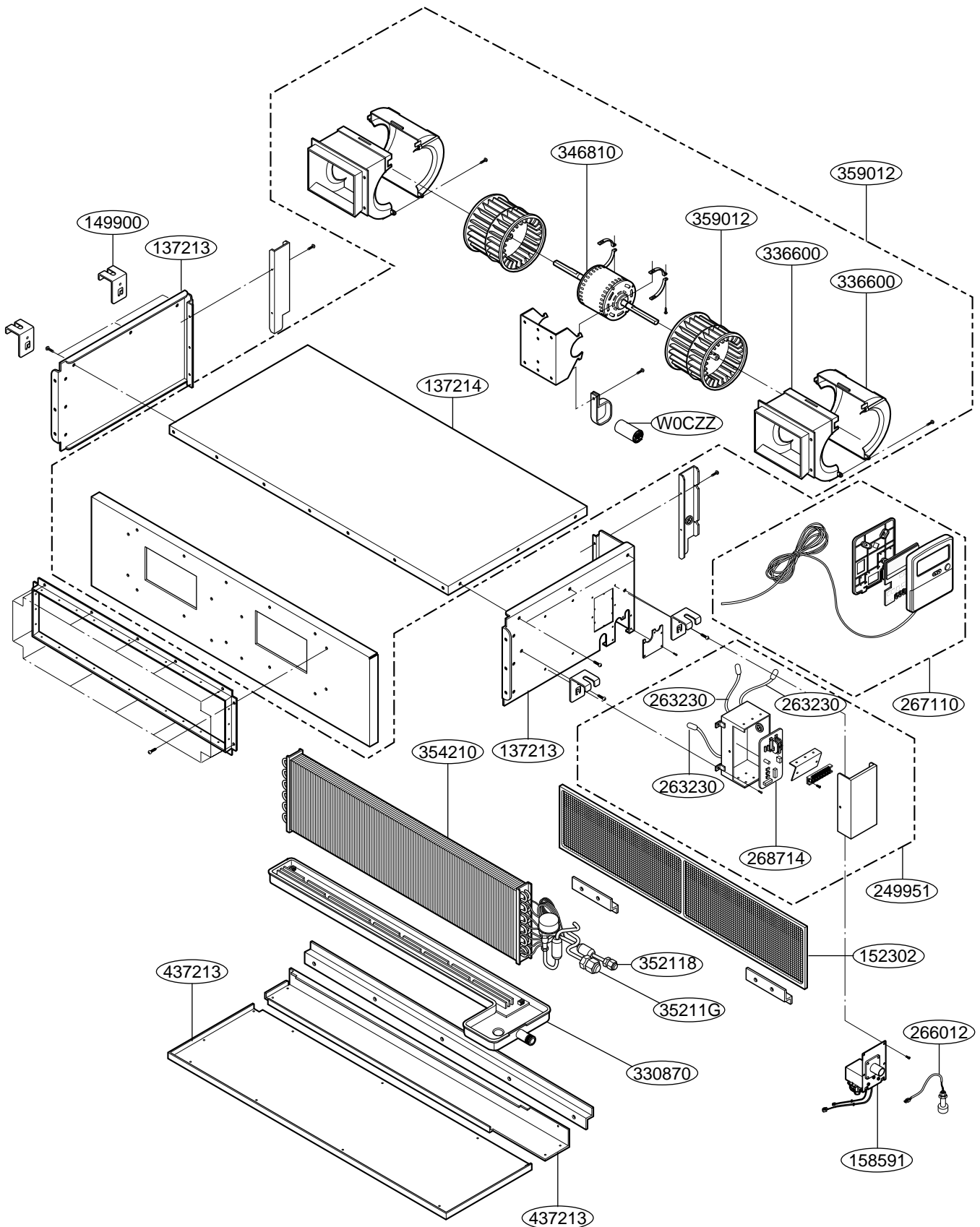


| LOCATION NO. | DESCRIPTION | PART NO. | | | | REMARK |
|--------------|--------------------------------|-------------|-------------|-------------|-------------|--------|
| | | LRNV182BHA0 | LRNV212BHA0 | LRNV242BHA0 | LRNV246BHA0 | |
| 359012 | FAN ASSEMBLY,BLOWER | 5901A10028T | 5901A10028T | 5901A10028T | 5901A10028T | |
| 336600 | HOUSING (MECH),WRAPPER | 3660A20017A | 3660A20017A | 3660A20017A | 3660A20017A | |
| 336600 | HOUSING (MECH),WRAPPER | 3660A20018A | 3660A20018A | 3660A20018A | 3660A20018A | |
| 346810 | MOTOR ASSEMBLY,INDOOR | 4681A10013C | 4681A10013C | 4681A10013C | 4681A10013C | |
| 359012 | FAN ASSEMBLY,BLOWER | 5901A10026A | 5901A10026A | 5901A10026A | 5901A10026A | |
| W0CZZ | CAPACITOR,DRAWING | 2A00986D | 2A00986D | 2A00986D | 2A00986D | |
| 354210 | EVAPORATOR ASSEMBLY,FIRST | 5421A20100B | 5421A20100B | 5421A20100B | 5421A20100B | |
| 352118 | TUBE ASSEMBLY,MENIFOLD(INDOOR) | 5211A20465D | 5211A20465D | 5211A20465D | 5211A20465D | |
| 352115 | TUBE ASSEMBLY,EVAPORATOR IN | 5211A10305A | 5211A10305A | 5211A10305A | 5211A10305A | |
| 330870 | DRAIN PAN ASSEMBLY | 3087A10008D | 3087A10008D | 3087A10008D | 3087A10008D | |
| 249951 | CONTROL BOX ASSEMBLY,INDOOR | 4995A10127K | 4995A10127L | 4995A10127M | 4995A10127N | |
| 268714 | PWB(PCB) ASSEMBLY,MAIN | 6871A10166G | 6871A10166H | 6871A10166J | 6871A10127N | |
| 263230 | THERMISTOR ASSY | 6323AQ3226G | 6323AQ3226G | 6323AQ3226G | 6323AQ3226G | |
| 263230 | THERMISTOR ASSEMBLY | 6323A30004D | 6323A30004D | 6323A30004D | 6323A30004D | |
| 263230 | THERMISTOR ASSEMBLY | 6323AQ3226W | 6323AQ3226W | 6323AQ3226W | 6323AQ3226W | |
| 267110 | REMOTE CONTROLLER ASSEMBLY | 6711A20043E | 6711A20043E | 6711A20043E | 6711A20043E | |
| 152302 | FILTER(MECH),A/C | 5230A30001M | 5230A30001M | 5230A30001M | 5230A30001M | |
| 158591 | PUMP ASSEMBLY,WATER | 5859A20002A | 5859A20002A | 5859A20002A | 5859A20002A | |
| 266012 | SWITCH ASSEMBLY,FLOAT | 6601A20001E | 6601A20001E | 6601A20001E | 6601A20001E | |
| 137214 | PANEL ASSEMBLY,UPPER | 3721A20177C | 3721A20177C | 3721A20177C | 3721A20177C | |
| 137213 | PANEL ASSEMBLY,SIDE | 3721A20178C | 3721A20178C | 3721A20178C | 3721A20178C | |
| 137213 | PANEL ASSEMBLY,SIDE | 3721A20179D | 3721A20179D | 3721A20179D | 3721A20179D | |
| 437213 | PANEL ASSEMBLY,REAR(INDOOR) | 3721A21004C | 3721A21007C | 3721A21010C | 3721A21004C | |
| 437213 | PANEL ASSEMBLY,REAR(INDOOR) | 3721A21005C | 3721A21005C | 3721A21005C | 3721A21005C | |
| 149900 | HANGER | 4990A20004A | 4990A20004A | 4990A20004A | 4990A20004A | |

Exploded View & Replacement Parts List

| LOCATION NO. | DESCRIPTION | PART NO. | | | | | REMARK |
|--------------|--------------------------------|-------------|-------------|-------------|-------------|-------------|--------|
| | | LRNN182BHA0 | LRNN186BHA0 | LRNN212BHA0 | LRNN242BHA0 | LRNN246BHA0 | |
| 359012 | FAN ASSEMBLY,BLOWER | 5901A10028T | 5901A10028T | 5901A10028T | 5901A10028T | 5901A10028T | |
| 336600 | HOUSING (MECH),WRAPPER | 3660A20017A | 3660A20017A | 3660A20017A | 3660A20017A | 3660A20017A | |
| 336600 | HOUSING (MECH),WRAPPER | 3660A20018A | 3660A20018A | 3660A20018A | 3660A20018A | 3660A20018A | |
| 346810 | MOTOR ASSEMBLY,INDOOR | 4681A10013C | 4681A10013C | 4681A10013C | 4681A10013C | 4681A10013C | |
| 359012 | FAN ASSEMBLY,BLOWER | 5901A10026A | 5901A10026A | 5901A10026A | 5901A10026A | 5901A10026A | |
| W0CZZ | CAPACITOR,DRAWING | 2A00986D | 2A00986D | 2A00986D | 2A00986D | 2A00986D | |
| 354210 | EVAPORATOR ASSEMBLY,FIRST | 5421A20100B | 5421A20100B | 5421A20100B | 5421A20100B | 5421A20100B | |
| 352118 | TUBE ASSEMBLY,MENIFOLD(INDOOR) | 5211A20465D | 5211A20465D | 5211A20465D | 5211A20465D | 5211A20465D | |
| 352115 | TUBE ASSEMBLY,EVAPORATOR IN | 5211A10305A | 5211A10305A | 5211A10305A | 5211A10305A | 5211A10305A | |
| 330870 | DRAIN PAN ASSEMBLY | 3087A10008D | 3087A10008D | 3087A10008D | 3087A10008D | 3087A10008D | |
| 249951 | CONTROL BOX ASSEMBLY,INDOOR | 4995A10127C | 4995A10127X | 4995A10127D | 4995A10127E | 4995A10127Y | |
| 268714 | PWB(PCB) ASSEMBLY,MAIN | 6871A10166A | 6871A10217A | 6871A10166B | 6871A10166C | 6871A10217B | |
| 263230 | THERMISTOR ASSY | 6323AQ3226G | 6323AQ3226G | 6323AQ3226G | 6323AQ3226G | 6323AQ3226G | |
| 263230 | THERMISTOR ASSEMBLY | 6323A30004D | 6323A30004D | 6323A30004D | 6323A30004D | 6323A30004D | |
| 263230 | THERMISTOR ASSEMBLY | 6323AQ3226W | 6323AQ3226W | 6323AQ3226W | 6323AQ3226W | 6323AQ3226W | |
| 267110 | REMOTE CONTROLLER ASSEMBLY | 6711A20043D | 6711A20043Q | 6711A20043D | 6711A20043D | 6711A20043D | |
| 152302 | FILTER(MECH),A/C | 5230A30001M | 5230A30001M | 5230A30001M | 5230A30001M | 5230A30001M | |
| 158591 | PUMP ASSEMBLY,WATER | 5859A20002A | 5859A20002A | 5859A20002A | 5859A20002A | 5859A20002A | |
| 266012 | SWITCH ASSEMBLY,FLOAT | 6601A20001E | 6601A20001E | 6601A20001E | 6601A20001E | 6601A20001E | |
| 137214 | PANEL ASSEMBLY,UPPER | 3721A20177C | 3721A20177C | 3721A20177C | 3721A20177C | 3721A20177C | |
| 137213 | PANEL ASSEMBLY,SIDE | 3721A20178C | 3721A20178C | 3721A20178C | 3721A20178C | 3721A20178C | |
| 137213 | PANEL ASSEMBLY,SIDE | 3721A20179D | 3721A20179D | 3721A20179D | 3721A20179D | 3721A20179D | |
| 437213 | PANEL ASSEMBLY,REAR(INDOOR) | 3721A21004C | 3721A21004C | 3721A21004C | 3721A21004C | 3721A21004C | |
| 437213 | PANEL ASSEMBLY,REAR(INDOOR) | 3721A21005C | 3721A21005C | 3721A21005C | 3721A21005C | 3721A21005C | |
| 149900 | HANGER | 4990A20004A | 4990A20004A | 4990A20004A | 4990A20004A | 4990A20004A | |

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Exploded View & Replacement Parts List

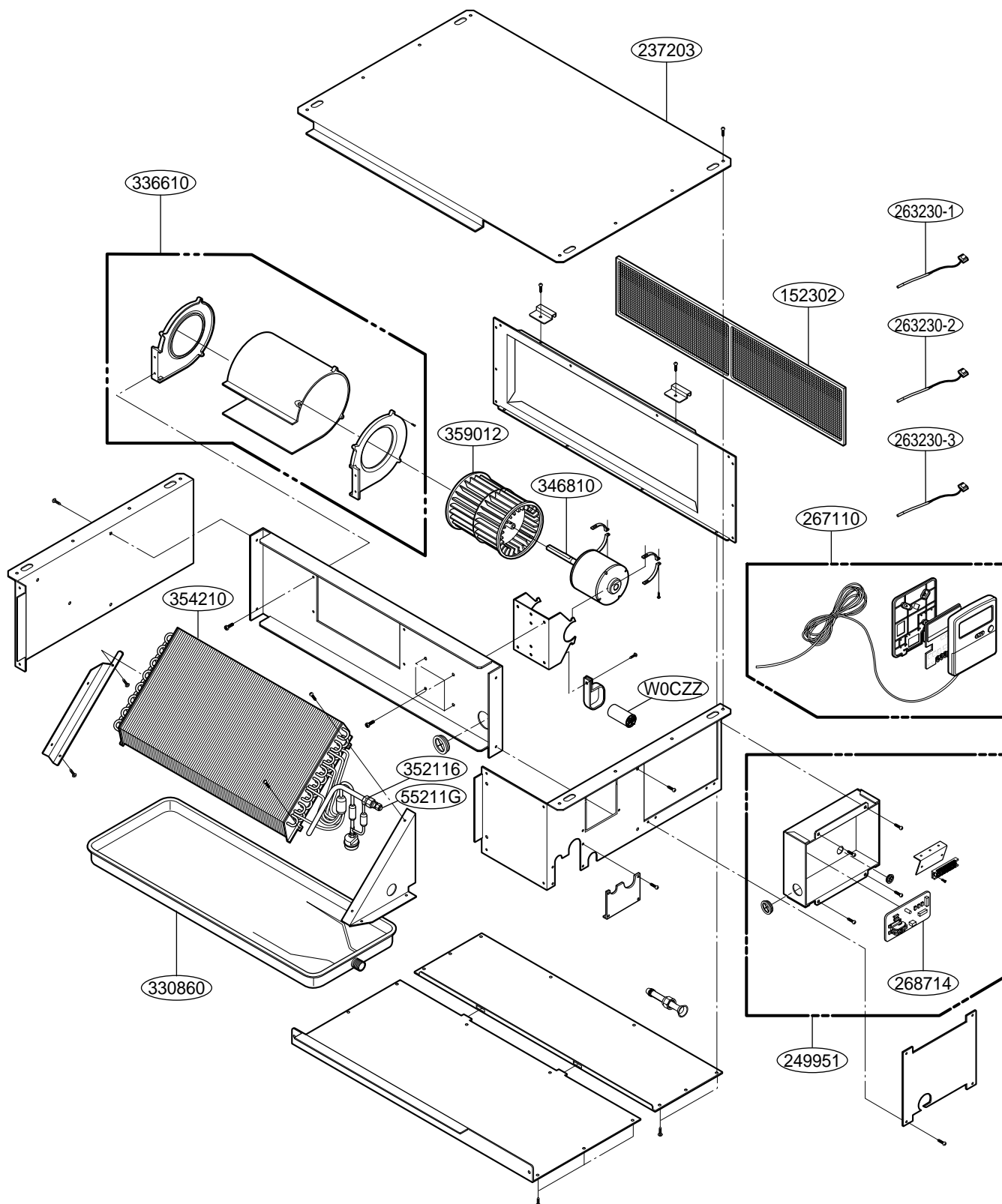
| LOCATION NO. | DESCRIPTION | PART NO. | | | | REMARK |
|--------------|--------------------------------|-------------|-------------|-------------|-------------|--------|
| | | LRNV282BGA0 | LRNV382BGA0 | LRNN286BGA0 | LRNN366BGA0 | |
| 359012 | FAN ASSEMBLY,BLOWER | 5901A10028U | 5901A10028A | 5901A10028V | 5901A10028U | |
| 336600 | HOUSING (MECH),WRAPPER | 3660A20019A | 3660A20019A | 3660A20019A | 3660A20019A | |
| 336600 | HOUSING (MECH),WRAPPER | 3660A20020A | 3660A20020A | 3660A20020A | 3660A20020A | |
| 346810 | MOTOR ASSEMBLY,INDOOR | 4681A10013P | 4681A10013A | 4681A10013A | 4681A10013P | |
| 359012 | FAN ASSEMBLY,BLOWER | 5901A10026A | 5901A10026A | 5901A10026A | 5901A10026A | |
| W0CZZ | CAPACITOR,DRAWING | 2A00986D | 2A00986D | 2A00986D | 2A00986D | |
| 354210 | EVAPORATOR ASSEMBLY,FIRST | 5421A10027C | 5421A10027C | 5421A10027C | 5421A10027C | |
| 352118 | TUBE ASSEMBLY,MENIFOLD(INDOOR) | 5211A20416G | 5211A20416H | 5211A20416G | 5211A20416G | |
| 55211G | TUBE ASSEMBLY,EXPANSION | 5211A10426A | 5211A10426B | 5211A10426A | 5211A10426A | |
| 330870 | DRAIN PAN ASSEMBLY | 3087A10008C | 3087A10008C | 3087A10008C | 3087A10008C | |
| 249951 | CONTROL BOX ASSEMBLY,INDOOR | 4995A10127N | 4995A10127U | 4995A10173C | 4995A10127Z | |
| 268714 | PWB(PCB) ASSEMBLY,MAIN | 6871A10166K | 6871A10166M | 6871A10217C | 6871A10217D | |
| 263230 | THERMISTOR ASSY | 6323AQ3226G | 6323AQ3226G | 6323AQ3226G | 6323AQ3226G | |
| 263230 | THERMISTOR ASSEMBLY | 6323A30004D | 6323A30004D | 6323A30004D | 6323A30004D | |
| 263230 | THERMISTOR ASSEMBLY | 6323AQ3226W | 6323AQ3226W | 6323AQ3226W | 6323AQ3226W | |
| 267110 | REMOTE CONTROLLER ASSEMBLY | 6711A20043E | 6711A20043E | 6711A20043D | 6711A20043Q | |
| 152302 | FILTER(MECH),A/C | 5230A30001L | 5230A30001L | 5230A30001L | 5230A30001L | |
| 158591 | PUMP ASSEMBLY,WATER | 5859A20002A | 5859A20002A | 5859A20002A | 5859A20002A | |
| 266012 | SWITCH ASSEMBLY,FLOAT | 6601A20001E | 6601A20001E | 6601A20001E | 6601A20001E | |
| 137214 | PANEL ASSEMBLY,UPPER | 3721A20180C | 3721A20180C | 3721A20180C | 3721A20180C | |
| 137213 | PANEL ASSEMBLY,SIDE | 3721A20181C | 3721A20181C | 3721A20181C | 3721A20181C | |
| 137213 | PANEL ASSEMBLY,SIDE | 3721A20183C | 3721A20183C | 3721A20183C | 3721A20183C | |
| 437213 | PANEL ASSEMBLY,REAR(INDOOR) | 3721A2006C | 3721A2006C | 3721A21006C | 3721A21006C | |
| 437213 | PANEL ASSEMBLY,REAR(INDOOR) | 3721A2007C | 3721A2007C | 3721A21007C | 3721A21007C | |
| 149900 | HANGER | 4990A20004A | 4990A20004A | 4990A20004A | 4990A20004A | |

| LOCATION NO. | DESCRIPTION | PART NO. | | REMARK |
|--------------|--------------------------------|-------------|-------------|--------|
| | | LRNN426BGA0 | LRNN362BGA0 | |
| 359012 | FAN ASSEMBLY,BLOWER | 5901A10028V | 5901A10028V | |
| 336600 | HOUSING (MECH),WRAPPER | 3660A20019A | 3660A20019A | |
| 336600 | HOUSING (MECH),WRAPPER | 3660A20020A | 3660A20020A | |
| 346810 | MOTOR ASSEMBLY,INDOOR | 4681A10013A | 4681A10013A | |
| 359012 | FAN ASSEMBLY,BLOWER | 5901A10026A | 5901A10026A | |
| W0CZZ | CAPACITOR,DRAWING | 2A00986D | 2A00986D | |
| 354210 | EVAPORATOR ASSEMBLY,FIRST | 5421A10027C | 5421A10027C | |
| 352118 | TUBE ASSEMBLY,MENIFOLD(INDOOR) | 5211A20416G | 5211A20416G | |
| 55211G | TUBE ASSEMBLY,EXPANSION | 5211A10426A | 5211A10426A | |
| 330870 | DRAIN PAN ASSEMBLY | 3087A10008C | 3087A10008C | |
| 249951 | CONTROL BOX ASSEMBLY,INDOOR | 4995A10127W | 4995A10127W | |
| 268714 | PWB(PCB) ASSEMBLY,MAIN | 6871A10166E | 6871A10166E | |
| 263230 | THERMISTOR ASSY | 6323AQ3226G | 6323AQ3226G | |
| 263230 | THERMISTOR ASSEMBLY | 6323A30004D | 6323A30004D | |
| 263230 | THERMISTOR ASSEMBLY | 6323AQ3226W | 6323AQ3226W | |
| 267110 | REMOTE CONTROLLER ASSEMBLY | 6711A20043D | 6711A20043D | |
| 152302 | FILTER(MECH),A/C | 5230A30001L | 5230A30001L | |
| 158591 | PUMP ASSEMBLY,WATER | 5859A20002A | 5859A20002A | |
| 266012 | SWITCH ASSEMBLY,FLOAT | 6601A20001E | 6601A20001E | |
| 137214 | PANEL ASSEMBLY,UPPER | 3721A20180C | 3721A20180C | |
| 137213 | PANEL ASSEMBLY,SIDE | 3721A20181C | 3721A20181C | |
| 137213 | PANEL ASSEMBLY,SIDE | 3721A20183C | 3721A20183C | |
| 437213 | PANEL ASSEMBLY,REAR(INDOOR) | 3721A21006C | 3721A21006C | |
| 437213 | PANEL ASSEMBLY,REAR(INDOOR) | 3721A21007C | 3721A21007C | |
| 149900 | HANGER | 4990A20004A | 4990A20004A | |



| LOCATION No. | DESCRIPTION | PART No. | | REMARK |
|--------------|--------------------------------|-------------|-------------|--------|
| | | LRNN486BEA0 | LRNV482BEA0 | |
| 359012 | FAN ASSEMBLY,BLOWER | 5901A20001F | 5901A20001E | |
| 336610 | HOUSING ASSY (MECH) | 3661A10009E | 3661A20001E | |
| 336610 | HOUSING ASSY (MECH) | 3661A10009F | 3661A20001F | |
| 346810 | MOTOR ASSEMBLY,INDOOR | 4681A20005K | 4681A20005J | |
| W0CZZ | CAPACITOR,DRAWING | 0CZZA20001C | 0CZZA20001C | |
| 359012 | FAN ASSEMBLY,BLOWER | 5901A10015E | 5833A20001A | |
| 359012 | FAN ASSEMBLY,BLOWER | 5901A10015F | 5833A20001B | |
| 354210 | EVAPORATOR ASSEMBLY,FIRST | 5421A20008A | 5421A20008A | |
| 352118 | TUBE ASSEMBLY,MENIFOLD(INDOOR) | 5211A30076B | 5211A30076B | |
| 55211G | TUBE ASSEMBLY,EXPANSION | 5211A10416B | 5211A10416B | |
| 330870 | DRAIN PAN ASSEMBLY | 3087A20023A | 3087A20023A | |
| 249951 | CONTROL BOX ASSEMBLY,INDOOR | 4995A10127T | 4995A10127P | |
| 268714 | PWB(PCB) ASSEMBLY,MAIN | 6871A10167D | 6871A10167B | |
| 263230 | THERMISTOR ASSY | 6323AQ3226G | 6323AQ3226G | |
| 263230 | THERMISTOR ASSEMBLY | 6323A30004D | 6323A30004D | |
| 263230 | THERMISTOR ASSEMBLY | 6323AQ3226W | 6323AQ3226W | |
| 267110 | REMOTE CONTROLLER ASSEMBLY | 6711A10002D | 6711A20043E | |
| 152302 | FILTER(MECH),A/C | 5230A30001A | 5230A30001A | |
| 158591 | PUMP ASSEMBLY,WATER | 5859A10002A | 5859A10002A | |
| 266012 | SWITCH ASSEMBLY,FLOAT | 6601A20001E | 6601A20001E | |
| 137214 | PANEL ASSEMBLY,UPPER | 3721A20184A | 3721A20184A | |
| 137213 | PANEL ASSEMBLY,SIDE | 3721A20185A | 3721A20185A | |
| 137213 | PANEL ASSEMBLY,SIDE | 3721A20186A | 3721A20186A | |
| 437213 | PANEL ASSEMBLY,REAR(INDOOR) | 3721A21008A | 3721A21008A | |
| 237205 | PANEL REAR | 3720A30011A | 3720A30011A | |
| 149900 | HANGER | 4990AP7280E | 4990AP7280E | |
| 149900 | HANGER | 4990AP7280F | 4990AP7280F | |

BT

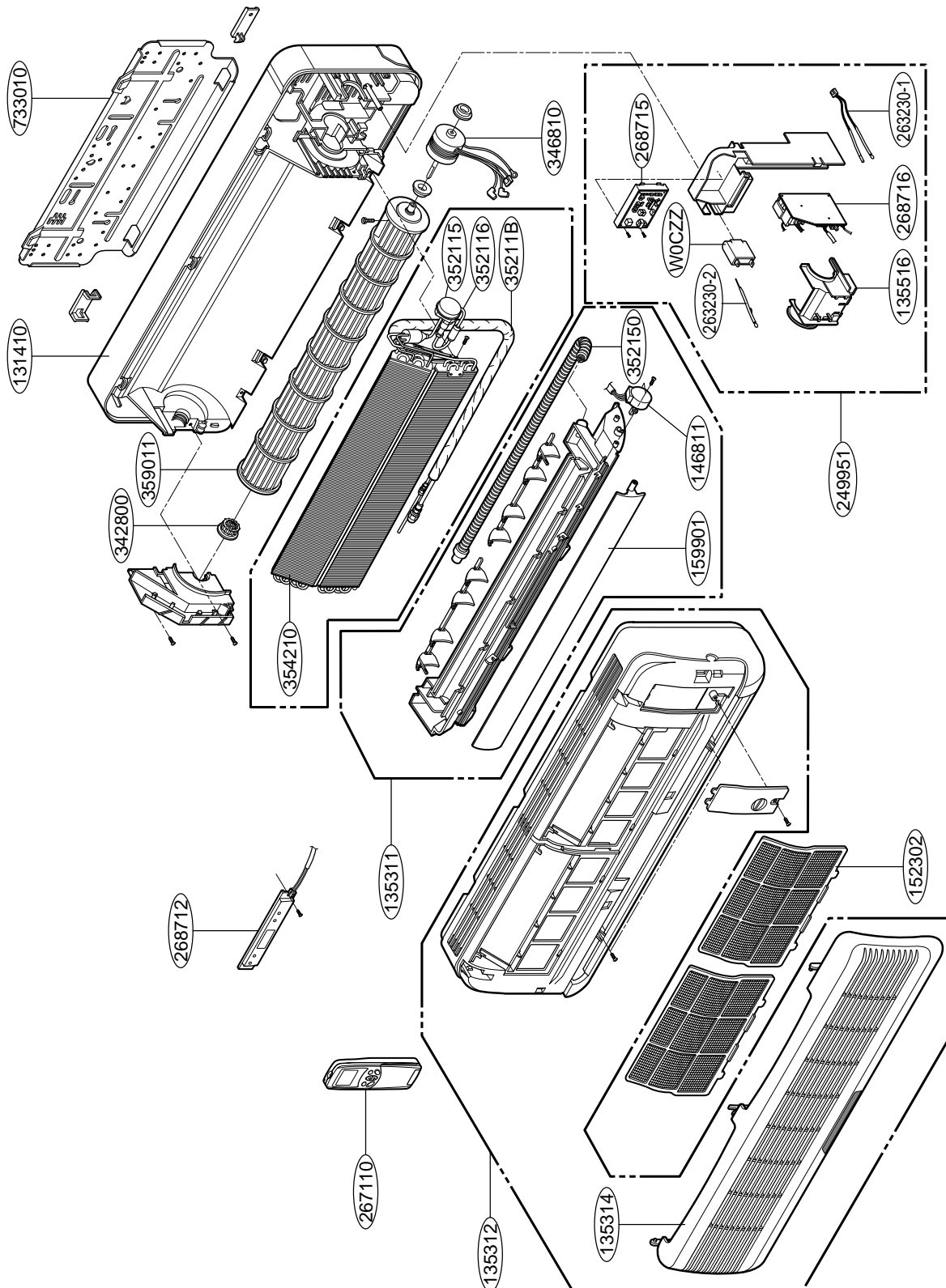


| LOCATION No. | DESCRIPTION | PART No. | | | REMARK |
|--------------|------------------------------|-------------|-------------|-------------|--------|
| | | LRNN076BTG0 | LRNN096BTG0 | LRNN126BTG0 | |
| 152302 | FILTER(MECH),A/C | 5230A30001Q | 5230A30001Q | 5230A30001Q | |
| 158580 | PUMP ASSEMBLY,WATER | 5859A10005A | 5859A10005A | 5859A10005A | |
| 237203 | PANEL ASSEMBLY,UPPER | 3721A20150B | 3721A20150B | 3721A20150B | |
| 249951 | CONTROL BOX ASSEMBLY,INDOOR | 4995A20514C | 4995A20514D | 4995A20514E | |
| 263230 | THERMISTOR ASSEMBLY | 6323A30004D | 6323A30004D | 6323A30004D | |
| 263230 | THERMISTOR ASSEMBLY | 6323AQ3226G | 6323AQ3226G | 6323AQ3226G | |
| 263230 | THERMISTOR ASSEMBLY | 6323AQ3226W | 6323AQ3226W | 6323AQ3226W | |
| 267110 | REMOTE CONTROLLER ASSEMBLY | 6711A20043D | 6711A20043D | 6711A20043D | |
| 268714 | PWB(PCB) ASSEMBLY,MAIN | 6871A10217F | 6871A10217G | 6871A10217H | |
| 330870 | DRAIN PAN ASSEMBLY | 3087A10015C | 3087A10015C | 3087A10015C | |
| 336610 | HOUSING ASSEMBLY (MECH) | 3661A20025A | 3661A20025A | 3661A20025A | |
| 346810 | MOTOR ASSEMBLY,INDOOR | 4681A10022B | 4681A10022B | 4681A10022B | |
| 352116 | TUBE ASSEMBLY,EVAPORATOR OUT | 5211A10418E | 5211A10418E | 5211A10418E | |
| 354210 | EVAPORATOR ASSEMBLY,FIRST | 5421A20153B | 5421A20153B | 5421A20153B | |
| 359012 | FAN ASSEMBLY,BLOWER | 5901A20030A | 5901A20030A | 5901A20030A | |
| 55211G | TUBE ASSEMBLY,EXPANSION | 5211A10508A | 5211A10508A | 5211A10508A | |
| WOCZZ | CAPACITOR,DRAWING | 3A02157H | 3A02157H | 3A02157H | |

Exploded View & Replacement Parts List

| LOCATION No. | DESCRIPTION | PART No. | | REMARK |
|--------------|------------------------------|-------------|-------------|--------|
| | | LRNV092BTQ0 | LRNV122BTQ0 | |
| 152302 | FILTER(MECH),A/C | 5230A30001Q | 5230A30001Q | |
| 158580 | PUMP ASSEMBLY,WATER | 5859A10005A | 5859A10005A | |
| 159830 | AIR CLEANER ASSEMBLY | 5983A10003A | 5983A10002A | |
| 237203 | PANEL ASSEMBLY,UPPER | 3721A20150B | 3721A20150B | |
| 249951 | CONTROL BOX ASSEMBLY,INDOOR | 4995A20338X | 4995A20338W | |
| 263230 | THERMISTOR ASSEMBLY | 6323A30004D | 6323A30004D | |
| 263230 | THERMISTOR ASSEMBLY | 6323AQ3226G | 6323AQ3226G | |
| 263230 | THERMISTOR ASSEMBLY | 6323AQ3226W | 6323AQ3226W | |
| 266090 | H.V ASSEMBLY | 6609A20005G | 6609A20005G | |
| 267110 | REMOTE CONTROLLER ASSEMBLY | 6711A10008C | 6711A10008C | |
| 268714 | PWB(PCB) ASSEMBLY,MAIN | 6871A10166P | 6871A10166Q | |
| 330870 | DRAIN PAN ASSEMBLY | 3087A10015C | 3087A10015C | |
| 336610 | HOUSING ASSEMBLY (MECH) | 3661A20025A | 3661A20025A | |
| 346810 | MOTOR ASSEMBLY,INDOOR | 4681A10022B | 4681A10022B | |
| 352116 | TUBE ASSEMBLY,EVAPORATOR OUT | 5211A10418E | 5211A10418E | |
| 354210 | EVAPORATOR ASSEMBLY,FIRST | 5421A20153B | 5421A20153B | |
| 359012 | FAN ASSEMBLY,BLOWER | 5901A20030A | 5901A20030A | |
| 55211G | TUBE ASSEMBLY,EXPANSION | 5211A10508A | 5211A10508A | |
| WOCZZ | CAPACITOR,DRAWING | 3A02157H | 3A02157H | |

SR

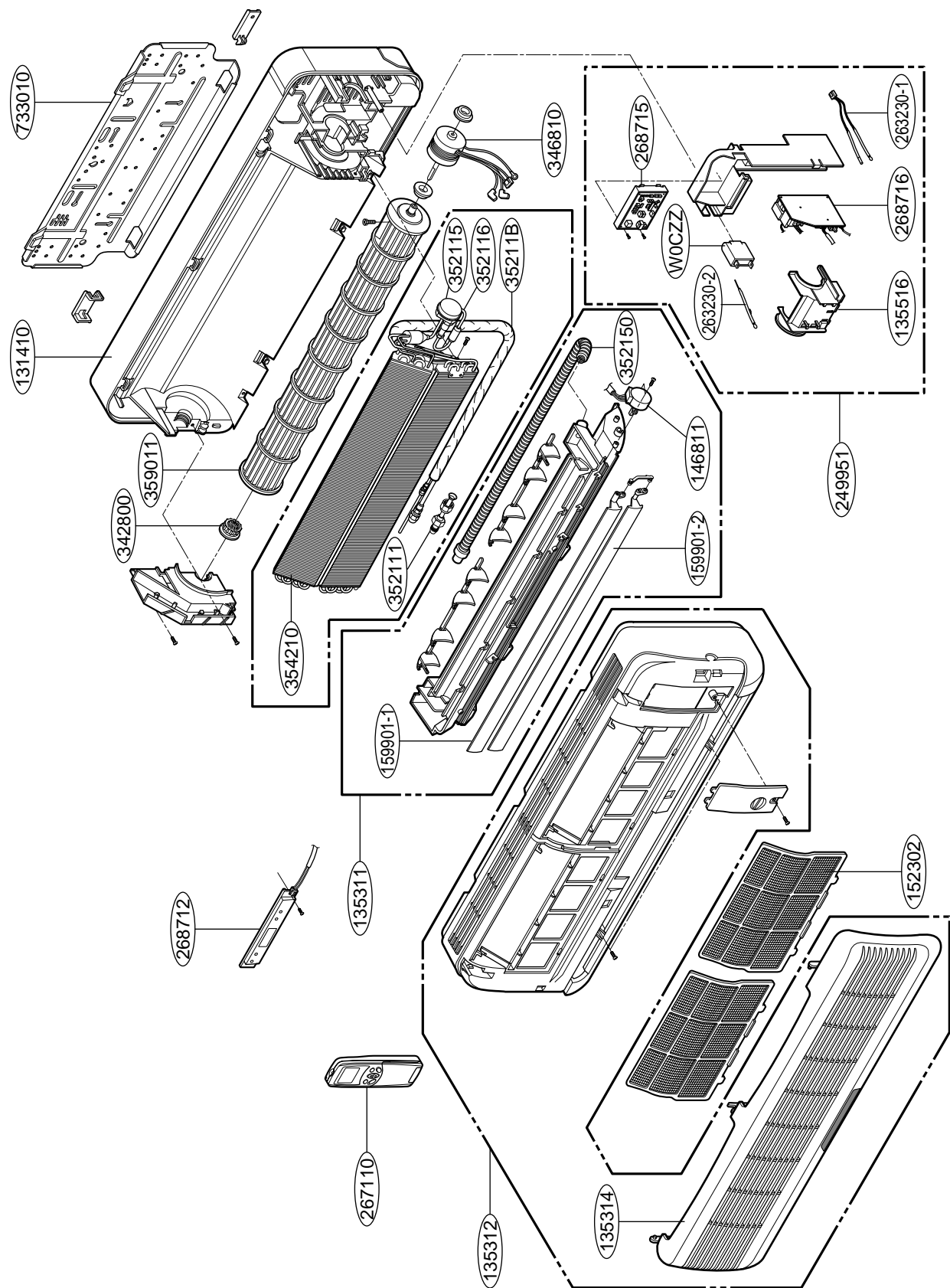


Exploded View & Replacement Parts List

| LOCATION NO. | DESCRIPTION | PART NO. | | | | REMARK |
|--------------|-----------------------------------|-------------|-------------|-------------|-------------|--------|
| | | LRNN076SRA0 | LRNN096SRA0 | LRNN126SRA0 | LRNV126SRA0 | |
| 131410 | CHASSIS ASSEMBLY | 3141A20005E | 3141A20005E | 3141A20005E | 3141A20005E | |
| 346810 | MOTOR ASSEMBLY,INDOOR | 4681A20048J | 4681A20048J | 4681A20048L | 4681A20048L | |
| 135516 | COVER ASSEMBLY,MOTOR | 3551A20050A | 3551A20050A | 3551A20050A | 3551A20050A | |
| 342800 | BEARING | 4280A20004A | 4280A20004A | 4280A20004A | 4280A20004A | |
| 359011 | FAN ASSEMBLY, CROSS FLOW | 5901A20007A | 5901A20007A | 5901A20007A | 5901A20007A | |
| 135311 | GRILLE ASSEMBLY,DISCHARGE(INDOOR) | 3531A10192E | 3531A10192E | 3531A10192E | 3531A10192E | |
| 146811 | MOTOR ASSEMBLY,STEP | 4681A20055A | 4681A20055A | 4681A20055A | 4681A20055A | |
| 159901 | VANE,HORIZONTAL | 5990A20007A | 5990A20007A | 5990A20007A | 5990A20007A | |
| 268712 | PWB(PCB)ASSEMBLY,DISPLAY | 6871A20227J | 6871A20227J | 6871A20227J | 6871A20227J | |
| 352150 | HOSE ASSEMBLY,DRAIN | 5251AR2575F | 5251AR2575F | 5251AR2575F | 5251AR2575F | |
| 35211B | TUBE ASSEMBLY,TUBING | 5211A10324A | 5211A10324A | 5211A10324A | 5211A10324A | |
| 263230 | THERMISTOR ASSEMBLY(ROOM,PIPE IN) | 6323A20004M | 6323A20004M | 6323A20004M | 6323A20004M | |
| 263230 | THERMISTOR ASSEMBLY(PIPE-OUT) | 6323AQ3226Z | 6323AQ3226Z | 6323AQ3226Z | 6323AQ3226Z | |
| 249951 | CONTROL BOX ASSEMBLY,INDOOR | 4995A12003Q | 4995A20274W | 4995A20274X | 4995A12003N | |
| 268715 | PWB(PCB)ASSEMBLY,MAIN(AC) | 6871A20274A | 6871A20274A | 6871A20274A | 6871A20274A | |
| 268716 | PWB(PCB)ASSEMBLY,MAIN(DC) | 6871A20581F | 6871A20581G | 6871A20581H | 6871A20581S | |
| W0CZZ | CAPACITOR,DRAWING | 3H01487A | 3H01487A | 3H01487A | 3H01487A | |
| 135312 | GRILL ASSEMBLY,FRONT(INDOOR) | 3531A10118W | 3531A10118W | 3531A10118W | 3531A10208Y | |
| 135314 | GRILL ASSEMBLY,INLET SUB | 3531A10117U | 3531A10117U | 3531A10117U | 3531A10283E | |
| 152302 | FILTER(MECH),A/C | 5230A20014C | 5230A20014C | 5230A20014C | 5230A20014C | |
| 733010 | PLATE | 1H00843A | 1H00843A | 1H00843A | 1H00843A | |
| 267110 | REMOTE CONTROLLER ASSEMBLY | 6711A20010B | 6711A20010B | 6711A20010B | 6711A20010A | |
| 352115 | TUBE ASSEMBLY, EVAPORATOR IN | 5211A10310A | 5211A10310A | 5211A10310A | 5211A10310A | |
| 352116 | TUBE ASSEMBLY, EVAPORATOR OUT | 5211A20911A | 5211A20911A | 5211A20911A | 5211A20911A | |
| 354210 | EVAPORATOR ASSEMBLY,FIRST | 5421A20086C | 5421A20086C | 5421A20086C | 5421A20086A | |

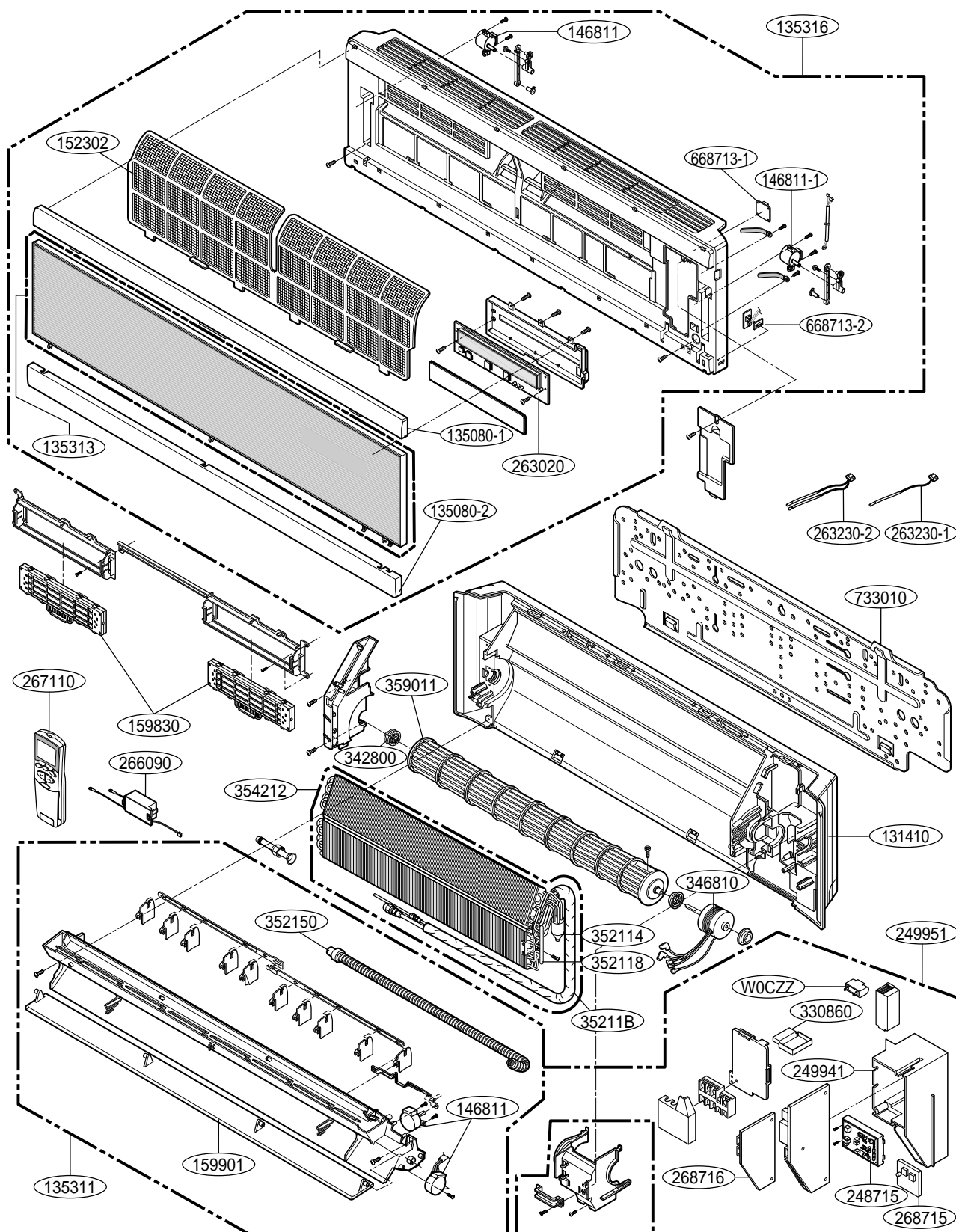
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|--------------|-----------------------------------|-------------|-------------|--------|
| | | LRNN092SRA0 | LRNN122SRA0 | |
| 131410 | CHASSIS ASSEMBLY | 3141A20005E | 3141A20005E | |
| 346810 | MOTOR ASSEMBLY,INDOOR | 4681A20048C | 4681A20048C | |
| 135516 | COVER ASSEMBLY,MOTOR | 3551A20050A | 3551A20050A | |
| 342800 | BEARING | 4280A20004A | 4280A20004A | |
| 359011 | FAN ASSEMBLY, CROSS FLOW | 5901A20007A | 5901A20007A | |
| 135311 | GRILLE ASSEMBLY,DISCHARGE(INDOOR) | 3531A10192E | 3531A10192E | |
| 146811 | MOTOR ASSEMBLY,STEP | 4681A20055A | 4681A20055A | |
| 159901 | VANE,HORIZONTAL | 5990A20007A | 5990A20007A | |
| 268712 | PWB(PCB)ASSEMBLY,DISPLAY | 6871A20227J | 6871A20227J | |
| 352150 | HOSE ASSEMBLY,DRAIN | 5251AR2575F | 5251AR2575F | |
| 35211B | TUBE ASSEMBLY,TUBING | 5211A10324A | 5211A10324A | |
| 263230 | THERMISTOR ASSEMBLY(ROOM,PIPE IN) | 6323A20004M | 6323A20004M | |
| 263230 | THERMISTOR ASSEMBLY(PIPE-OUT) | 6323AQ3226Z | 6323AQ3226Z | |
| 249951 | CONTROL BOX ASSEMBLY,INDOOR | 4995A20274S | 4995A20274T | |
| 268715 | PWB(PCB)ASSEMBLY,MAIN(AC) | 6871A20274A | 6871A20274A | |
| 268716 | PWB(PCB)ASSEMBLY,MAIN(DC) | 6871A20581A | 6871A20581B | |
| W0CZZ | CAPACITOR,DRAWING | 3H01487A | 3H01487A | |
| 135312 | GRILL ASSEMBLY,FRONT(INDOOR) | 3531A10118W | 3531A10118W | |
| 135314 | GRILL ASSEMBLY,INLET SUB | 3531A10117U | 3531A10117U | |
| 152302 | FILTER(MECH),A/C | 5230A20014C | 5230A20014C | |
| 733010 | PLATE | 1H00843A | 1H00843A | |
| 267110 | REMOTE CONTROLLER ASSEMBLY | 6711A20010B | 6711A20010B | |
| 352115 | TUBE ASSEMBLY, EVAPORATOR IN | 5211A10310A | 5211A10310A | |
| 352116 | TUBE ASSEMBLY, EVAPORATOR OUT | 5211A20911A | 5211A20911A | |
| 354210 | EVAPORATOR ASSEMBLY,FIRST | 5421A20086A | 5421A20086A | |

ST



| LOCATION NO. | DESCRIPTION | PART NO. | | | | REMARK |
|--------------|-------------------------------------|-------------|-------------|-------------|-------------|--------|
| | | LRNN186STA0 | LRNN182STA0 | LRNV186STA0 | LRNV182STL0 | |
| 131410 | CHASSIS ASSEMBLY | 3141A10002A | 3141A10002A | 3141A10002A | 3141A10002A | |
| 346810 | MOTOR ASSEMBLY, INDOOR | 4681A20003D | 4681A20003B | 4681A20003D | 4681A20003B | |
| 135516 | COVER ASSEMBLY, MOTOR | 3551A20099C | 3551A20099C | 3551A20099C | 3551A20099C | |
| 342800 | BEARING | 4280A20004A | 4280A20004A | 4280A20004A | 4280A20004A | |
| 359011 | FAN ASSEMBLY, CROSS FLOW | 5901A20008A | 5901A20008A | 5901A20008A | 5901A20008A | |
| 135311 | GRILLE ASSEMBLY, DISCHARGE (INDOOR) | 3531A10231Y | 3531A10231Y | 3531A10231Y | 3531A10231Y | |
| 146811 | MOTOR ASSEMBLY, STEP | 4681A20055A | 4681A20055A | 4681A20055A | 4681A20055A | |
| 159901 | VANE, HORIZONTAL | 5990A20008A | 5990A20008A | 5990A20008A | 5990A20008A | |
| 159901 | VANE, HORIZONTAL | 5990A20009A | 5990A20009A | 5990A20009A | 5990A20009A | |
| 268712 | PWB(PCB) ASSEMBLY, DISPLAY | 6871A20227M | 6871A20227M | 6871A20227M | 6871A20227M | |
| 352150 | HOSE ASSEMBLY, DRAIN | 5251AR2575F | 5251AR2575F | 5251AR2575F | 5251AR2575F | |
| 35211B | TUBE ASSEMBLY, TUBING | 5211A10324B | 5211A10324B | 5211A10324B | 5211A10324B | |
| 263230 | THERMISTOR ASSEMBLY (ROOM, PIPE IN) | 6323A20004M | 6323A20004M | 6323A20004M | 6323A20004M | |
| 263230 | THERMISTOR ASSEMBLY (PIPE-OUT) | 6323AQ3226Z | 6323AQ3226Z | 6323AQ3226Z | 6323AQ3226Z | |
| 249951 | CONTROL BOX ASSEMBLY, INDOOR | 4995A20274Y | 4995A20274U | 4995A12003M | 4995A20274V | |
| 268715 | PWB(PCB) ASSEMBLY, MAIN (AC) | 6871A20274A | 6871A20274A | 6871A20274A | 6871A20274A | |
| 268716 | PWB(PCB) ASSEMBLY, MAIN (DC) | 6871A20581J | 6871A20581C | 6871A20581T | 6871A20581P | |
| W0CZZ | CAPACITOR, DRAWING | 3H01487G | 3H01487G | 3H01487G | 3H01487G | |
| 135312 | GRILL ASSEMBLY, FRONT (INDOOR) | 3531A20207H | 3531A20207H | 3531A20207M | 3531A20207N | |
| 135314 | GRILL ASSEMBLY, INLET SUB | 3531A20107L | 3531A20107L | 3531A20233E | 3531A20233E | |
| 152302 | FILTER (MECH), A/C | 5230A20001A | 5230A20001A | 5230A20001A | 5230A20001A | |
| 733010 | PLATE | 3301A10002A | 3301A10002A | 3301A10002A | 3301A10002A | |
| 267110 | REMOTE CONTROLLER ASSEMBLY | 6711A20010B | 6711A20010B | 6711A20010A | 6711A20010E | |
| 352115 | TUBE ASSEMBLY, EVAPORATOR IN | 5211A14006B | 5211A14006B | 5211A14006B | 5211A14006B | |
| 352116 | TUBE ASSEMBLY, EVAPORATOR OUT | 5211A30057E | 5211A30057E | 5211A30057E | 5211A30057E | |
| 354210 | EVAPORATOR ASSEMBLY, FIRST | 5421A20010E | 5421A20010D | 5421A20010D | 5421A20010D | |

SU



| LOCATION NO. | DESCRIPTION | PART NO. | | | | REMARK |
|--------------|-------------------------------------|-------------|-------------|-------------|-------------|--------|
| | | LRNV072SUD0 | LRNV092SUD0 | LRNV122SUD0 | LRNN126SUR0 | |
| 131410 | CHASSIS ASSEMBLY | 3141A20007E | 3141A20007E | 3141A20007E | 3141A20007E | |
| 346810 | MOTOR ASSEMBLY, INDOOR | 4681A20048F | 4681A20048F | 4681A20048F | 4681A20048L | |
| 342800 | BEARING | 4280A20004A | 4280A20004A | 4280A20004A | 4280A20004A | |
| 135311 | GRILLE ASSEMBLY, DISCHARGE (INDOOR) | 3531A10137B | 3531A10137B | 3531A10137B | 3531A10137B | |
| 146811 | MOTOR ASSEMBLY, STEP | 4681A20055A | 4681A20055A | 4681A20055A | 4681A20055B | |
| 159901 | VANE, HORIZONTAL | 5990A20015B | 5990A20015B | 5990A20015B | 5990A20015B | |
| 352150 | HOSE ASSEMBLY, DRAIN | 5251AR1222R | 5251AR1222R | 5251AR1222R | 5251AR1222R | |
| 359011 | FAN ASSEMBLY, CROSS FLOW | 5901A20016A | 5901A20016A | 5901A20016A | 5901A20016A | |
| 354212 | EVAPORATOR ASSEMBLY, FINAL | 5421A20105M | 5421A20105M | 5421A20105M | 5421A20105M | |
| 35211B | TUBE ASSEMBLY, TUBING | 5211A10324C | 5211A10324C | 5211A10324C | 5211A10324C | |
| 35211B | TUBE ASSEMBLY, TUBING | 5211A20774C | 5211A20774C | 5211A20774C | 5211A20774C | |
| 352114 | TUBE ASSEMBLY, EVAPORATOR IN | 5211A14011A | 5211A14011A | 5211A14011A | 5211A14011A | |
| 159830 | AIR CLEANER ASSEMBLY | 5983A10006U | 5983A10006U | 5983A10006U | 5983A10006U | |
| 249951 | CONTROL BOX ASSEMBLY, INDOOR | 4995A12003R | 4995A12003S | 4995A12003T | 4995A12003L | |
| 249941 | CONTROL BOX, INDOOR | 4994A10047A | 4994A10047A | 4994A10047A | 4994A10047A | |
| 268715 | PWB(PCB) ASSEMBLY, MAIN(AC) | 6871A20274A | 6871A20274A | 6871A20274A | 6871A20274A | |
| 268716 | PWB(PCB) ASSEMBLY, MAIN(DC) | 6871A20172V | 6871A20172X | 6871A20172E | 6871A20172J | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20004M | 6323A20004M | 6323A20004M | 6323A20004M | |
| W0CZZ | CAPACITOR, DRAWING | 3H01487A | 3H01487A | 3H01487A | 3H01487A | |
| 330860 | DRAIN PAN | 3086A20015A | 3086A20015A | 3086A20015A | 3086A20015A | |
| 263230 | THERMISTOR ASSEMBLY | 6323AQ3226Z | 6323AQ3226Z | 6323AQ3226Z | 6323AQ3226Z | |
| 135316 | GRILLE ASSEMBLY, FRONT (INDOOR) | 3531A21026L | 3531A21026L | 3531A21026L | 3531A21026L | |
| 135313 | GRILLE ASSEMBLY, INLET | 3531A10331B | 3531A10331B | 3531A10331B | 3531A10391A | |
| 263020 | LCD MODULE | 6306A90005A | 6306A90005A | 6306A90005A | 6306A90005A | |
| 135080 | DECORATION | 3508A20034E | 3508A20034E | 3508A20034E | 3508A20034E | |
| 668713 | PWB(PCB) ASSEMBLY, SUB | 6871A20259A | 6871A20259A | 6871A20259A | 6871A20259A | |
| 668713 | PWB(PCB) ASSEMBLY, SUB | 6871A20258B | 6871A20258B | 6871A20258B | 6871A20258B | |
| 146811 | MOTOR ASSEMBLY, STEP | 4681A20055B | 4681A20055B | 4681A20055B | 4681A20055B | |
| 152302 | FILTER (MECH), A/C | 5230A20022A | 5230A20022A | 5230A20022A | 5230A20022A | |
| 733010 | PLATE | 1H00843A | 1H00843A | 1H00843A | 1H00843A | |
| 267110 | REMOTE CONTROLLER ASSEMBLY | 6711A20077U | 6711A20077U | 6711A20077U | 6711A20077U | |
| 266090 | H.V ASSEMBLY | 6609A10005A | 6609A10005A | 6609A10005A | 6609A10005A | |

Exploded View & Replacement Parts List

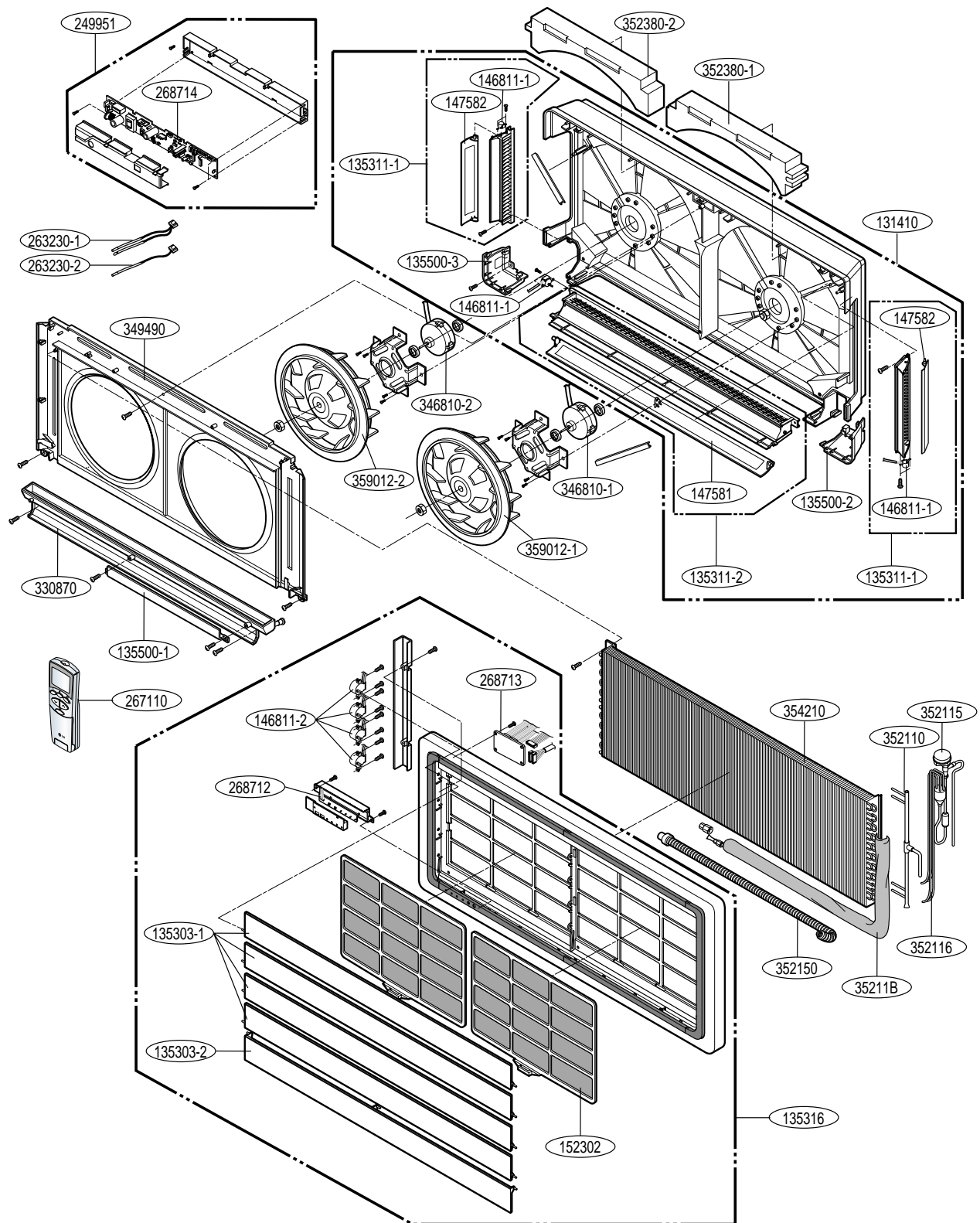
| LOCATION No. | DESCRIPTION | PART No. | | REMARK |
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| | | LRNV182S3D0 | LRNN186S3R0 | |
| 131410 | CHASSIS ASSEMBLY | 3141A20012A | 3141A20012A | |
| 346810 | MOTOR ASSEMBLY,INDOOR | 4681A20003B | 4681A20067A | |
| 342800 | BEARING | 4280A20004A | 4280A20004A | |
| 135311 | GRILLE ASSEMBLY,DISCHARGE(INDOOR) | 3531A20231C | 3531A20231C | |
| 146811 | MOTOR ASSEMBLY,STEP | 4681A20055A | 4681A20055A | |
| 159901 | VANE,HORIZONTAL | 5990A20042B | 5990A20042B | |
| 352150 | HOSE ASSEMBLY,DRAIN | 5251AR1222R | 5251AR1222R | |
| 359011 | FAN ASSEMBLY,CROSS FLOW | 5901A20017C | 5901A20017C | |
| 354212 | EVAPORATOR ASSEMBLY,FINAL | 5421A21004W | 5421A20211B | |
| 35211B | TUBE ASSEMBLY,TUBING | 5211A30439Y | 5211A30439D | |
| 352114 | TUBE ASSEMBLY,EVAPORATOR IN | 5211A14006B | 5211A14006B | |
| 159830 | AIR CLEANER ASSEMBLY | 5983A10006U | 5983A10006X | |
| 249951 | CONTROL BOX ASSEMBLY,INDOOR | 4995A12003U | 4995A12003P | |
| 249941 | CONTROL BOX,INDOOR | 4994A10047A | 4994A10047A | |
| 268715 | PWB(PCB) ASSEMBLY,MAIN(AC) | 6871A20274A | 6871A20274A | |
| 268716 | PWB(PCB) ASSEMBLY,MAIN(DC) | 6871A20172T | 6871A20172K | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20004M | 6323A20004M | |
| W0CZZ | CAPACITOR,DRAWING | 3H01487A | 3H01487A | |
| 330860 | DRAIN PAN | 3086A12001A | 3086A12001A | |
| 135316 | GRILLE ASSEMBLY,FRONT(INDOOR) | 3531A20263Y | 3531A20263A | |
| 135313 | GRILLE ASSEMBLY,INLET | 3531A20244C | 3531A20244C | |
| 668713 | PWB(PCB) ASSEMBLY,SUB | 6871A20259A | 6871A20259A | |
| 668713 | PWB(PCB) ASSEMBLY,SUB | 6871A20258B | 6871A20258C | |
| 152302 | FILTER(MECH),A/C | 5230A20047A | 5230A20047A | |
| 733010 | PLATE | 3301A10002A | 3301A10002A | |
| 267110 | REMOTE CONTROLLER ASSEMBLY | 6711A20077U | 6711A20073C | |
| 266090 | H.V ASSEMBLY | 6609A10005A | 6609A10005A | |



Exploded View & Replacement parts List

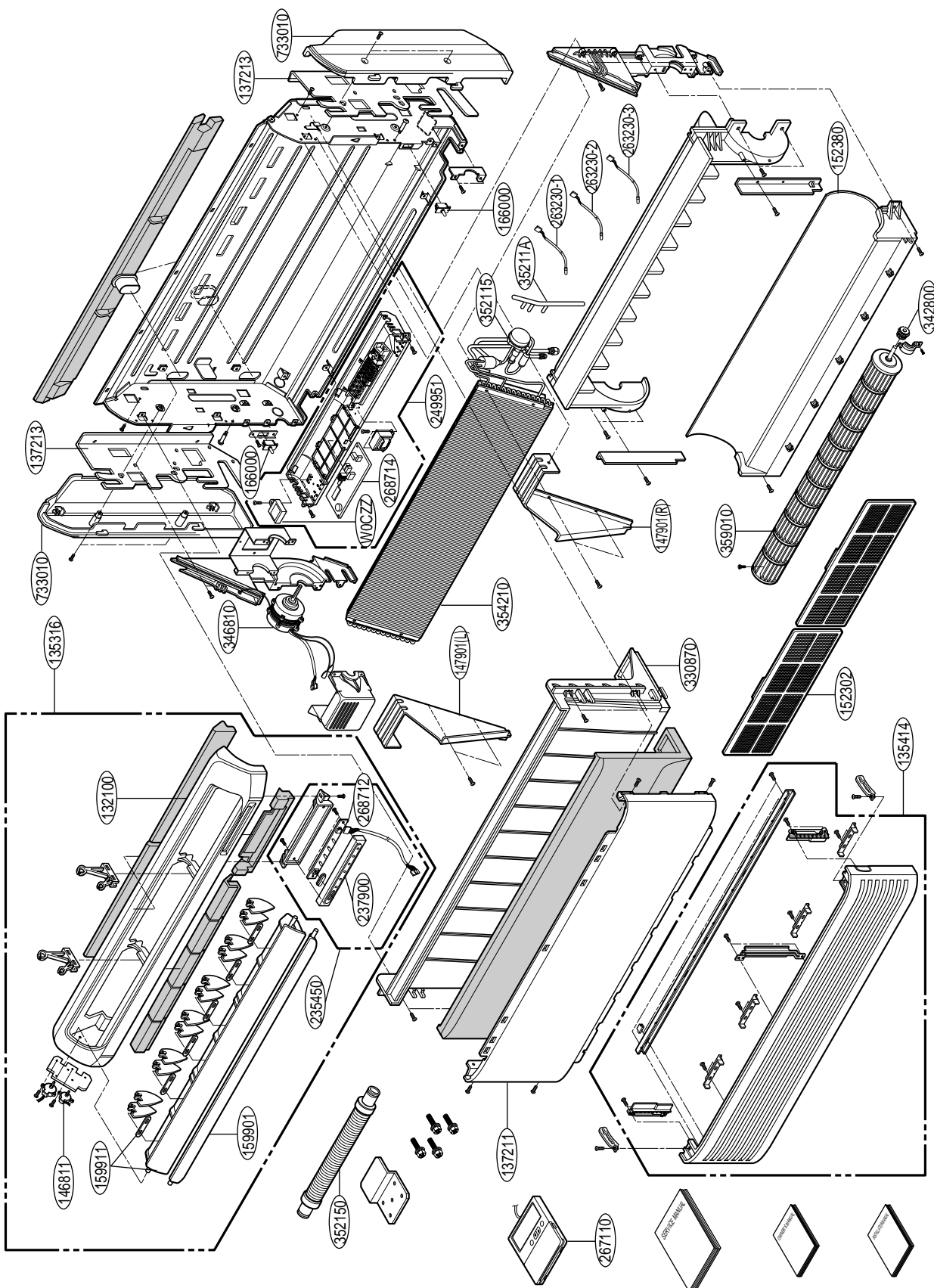
| LOCATION No. | DESCRIPTION | PART No. | | REMARK |
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| | | LRNN096SPM0 | LRNV092SPD0 | |
| 131410 | CHASSIS ASSEMBLY | 3141A20004F | 3141A20004F | |
| 135303 | GRILLE,INLET | 3530A10071D | 3530A10071C | |
| 135311 | GRILLE ASSEMBLY,DISCHARGE(INDOOR) | 3531A20069D | 3531A20069D | |
| 135311 | GRILLE ASSEMBLY,DISCHARGE(INDOOR) | 3531A20069E | 3531A20069E | |
| 135311 | GRILLE ASSEMBLY,DISCHARGE(INDOOR) | 3531A20069L | 3531A20069L | |
| 135313 | GRILLE ASSEMBLY,INLET | 3531A20113A | 3531A20113M | |
| 135316 | GRILLE ASSEMBLY,FRONT(INDOOR) | 3531A10145S | 3531A10296D | |
| 135500 | COVER | 3550A20060A | 3550A20060A | |
| 135500 | COVER | 3550A20123A | 3550A20123A | |
| 135500 | COVER | 3550A20124A | 3550A20124A | |
| 135515 | COVER ASSY,TOP(INDOOR) | 3551A20031A | 3551A20031A | |
| 144710 | GEAR ASSEMBLY | 4471A20001C | 4471A20001C | |
| 144710 | GEAR ASSEMBLY | 4471A20001D | 4471A20001D | |
| 146811 | MOTOR ASSEMBLY,STEP | 4681A20055A | 4681A20055A | |
| 146811 | MOTOR ASSEMBLY,STEP | 4681A20055A | 4681A20055A | |
| 146811 | MOTOR ASSEMBLY,STEP | 4681A20055A | 4681A20055A | |
| 146811 | MOTOR ASSEMBLY,STEP | 4681A20055A | 4681A20055A | |
| 147581 | LOUVER,HORIZONTAL | 4758A20014B | 4758A20014B | |
| 147581 | LOUVER,HORIZONTAL | 4758A20014B | 4758A20014B | |
| 147581 | LOUVER,HORIZONTAL | 4758A20014B | 4758A20014B | |
| 152312 | FILTER ASSEMBLY,AIR CLEANER | 5231A20005A | 5231A20005A | |
| 249951 | CONTROL BOX ASSEMBLY,INDOOR | 4995A20270N | 4995A20270P | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20004J | 6323A20004J | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20004J | 6323A20004J | |
| 263230 | THERMISTOR ASSEMBLY | 6323AQ3226W | 6323AQ3226W | |
| 267110 | REMOTE CONTROLLER ASSEMBLY | 6711A20039P | 6711A20073L | |
| 268712 | PWB(PCB) ASSEMBLY,DISPLAY | 6871A20238B | 6871A20238B | |
| 268713 | PWB(PCB) ASSEMBLY,SUB | 6871A30027A | 6871A30027A | |
| 268714 | PWB(PCB) ASSEMBLY,MAIN(DC) | 6871A20676J | 6871A20676T | |
| 330870 | DRAIN PAN ASSEMBLY | 3087A30004A | 3087A30004A | |
| 346810 | MOTOR ASSEMBLY,INDOOR | 4681A20047B | 4681A20047B | |
| 352090 | AIR GUIDE | 5238A10007A | 5238A10007A | |
| 352115 | TUBE ASSEMBLY,EXPANSION | 5211A11041A | 5211A11041A | |
| 352116 | TUBE ASSEMBLY,EVAPORATOR OUT | 5211A11042A | 5211A11042A | |
| 352150 | HOSE ASSEMBLY,DRAIN | 5251AR1222R | 5251AR1222R | |
| 359012 | FAN,TURBO | 5900A00003A | 5900A00003A | |

SV



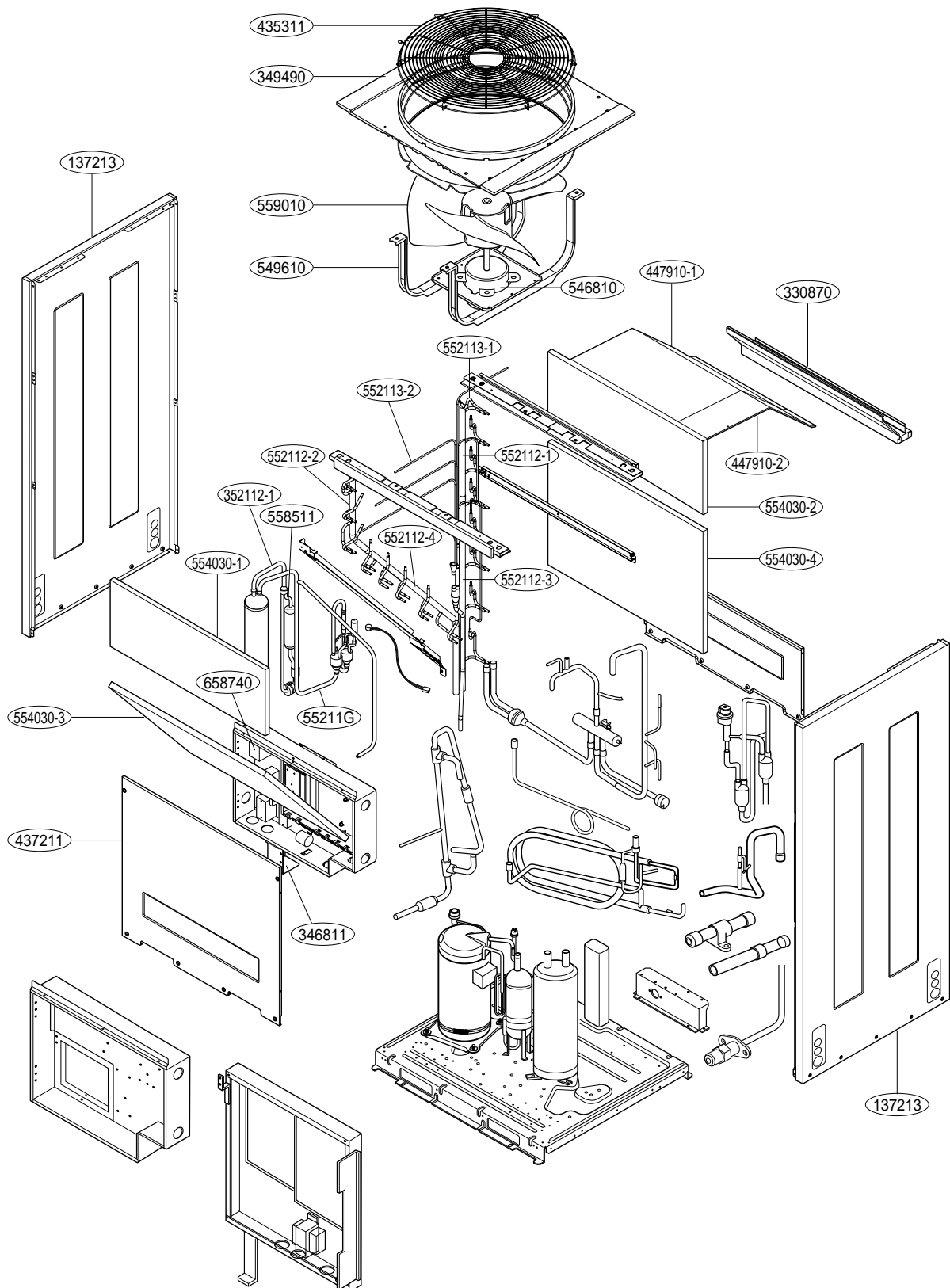
Exploded View & Replacement Parts List

| LOCATION NO. | DESCRIPTION | PART NO. | | | | | REMARK |
|--------------|-----------------------------------|-------------|-------------|-------------|-------------|-------------|--------|
| | | LRNV126SVM0 | LRNN126SVM0 | LRNV186SVM0 | LRNN186SVM0 | LRNN182SVM0 | |
| 135303 | GRILLE,INLET | 3530A10116D | 3530A10116D | 3530A10116D | 3530A10116D | 3530A10116D | |
| 135303 | GRILLE,INLET | 3530A10117D | 3530A10117D | 3530A10117D | 3530A10117D | 3530A10117D | |
| 135311 | GRILLE ASSEMBLY,DISCHARGE(INDOOR) | 3531A20124B | 3531A20124B | 3531A20124B | 3531A20124B | 3531A20124B | |
| 135311 | GRILLE ASSEMBLY,DISCHARGE(INDOOR) | 3531A20125B | 3531A20125B | 3531A20125B | 3531A20125B | 3531A20125B | |
| 135316 | GRILLE ASSEMBLY,FRONT(INDOOR) | 3531A11018E | 3531A10153Z | 3531A11018E | 3531A10153Z | 3531A10153Z | |
| 135500 | COVER | 3550A20060A | 3550A20060A | 3550A20060A | 3550A20060A | 3550A20060A | |
| 135500 | COVER | 3550A20120B | 3550A20120B | 3550A20120B | 3550A20120B | 3550A20120B | |
| 135500 | COVER | 3550A20121B | 3550A20121B | 3550A20121B | 3550A20121B | 3550A20121B | |
| 146811 | MOTOR ASSEMBLY,STEP | 4681A20055A | 4681A20055A | 4681A20055A | 4681A20055A | 4681A20055A | |
| 146811 | MOTOR ASSEMBLY,STEP | 4681A20055C | 4681A20055C | 4681A20055C | 4681A20055C | 4681A20055C | |
| 147581 | LOUVER,HORIZONTAL | 4758A20033A | 4758A20033A | 4758A20033A | 4758A20033A | 4758A20033A | |
| 147582 | LOUVER,VERTICAL | 4758A20034A | 4758A20034A | 4758A20034A | 4758A20034A | 4758A20034A | |
| 152302 | FILTER(MECH),A/C | 5230A10006B | 5230A10006B | 5230A10006B | 5230A10006B | 5230A10006B | |
| 237900 | WINDOW,DISPLAY | 3790A20035A | 3790A20035A | 3790A20035A | 3790A20035A | 3790A20035A | |
| 249951 | CONTROL BOX ASSEMBLY,INDOOR | 4995A10098N | 4995A10098Q | 4995A10098P | 4995A10098M | 4995A10098M | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20004J | 6323A20004J | 6323A20004J | 6323A20004J | 6323A20004J | |
| 263230 | THERMISTOR ASSEMBLY | 6323AQ3226V | 6323AQ3226V | 6323AQ3226V | 6323AQ3226V | 6323AQ3226V | |
| 267110 | REMOTE CONTROLLER ASSEMBLY | 6711A20010A | 6711A20039P | 6711A20010A | 6711A20073N | 6711A20073N | |
| 268712 | PWB(PCB) ASSEMBLY,DISPLAY | 6871A20250A | 6871A20250A | 6871A20250A | 6871A20250A | 6871A20250A | |
| 268713 | PWB(PCB) ASSEMBLY,SUB | 6871A30029A | 6871A30029A | 6871A30029A | 6871A30029A | 6871A30029A | |
| 268714 | PWB(PCB) ASSEMBLY,MAIN(DC) | 6871A20676Q | 6871A20676L | 6871A20676R | 6871A20676M | 6871A20676M | |
| 330870 | DRAIN PAN ASSEMBLY | 3087A20013A | 3087A20013A | 3087A20013A | 3087A20013A | 3087A20013A | |
| 346810 | MOTOR ASSEMBLY,INDOOR | 4681A20047C | 4681A20047C | 4681A20047C | 4681A20047C | 4681A20047C | |
| 346810 | MOTOR ASSEMBLY,INDOOR | 4681A20047D | 4681A20047D | 4681A20047D | 4681A20047D | 4681A20047D | |
| 349490 | ORIFICE ASSEMBLY | 4949A20002A | 4949A20002A | 4949A20002A | 4949A20002A | 4949A20002A | |
| 352115 | TUBE ASSEMBLY,EVAPORATOR IN | 5211A10423A | 5211A10423A | 5211A10423A | 5211A10423A | 5211A10423A | |
| 352116 | TUBE ASSEMBLY,EVAPORATOR OUT | 5211A20301H | 5211A20301H | 5211A20301H | 5211A20301H | 5211A20301H | |
| 352150 | HOSE ASSEMBLY,DRAIN | 5251AR1222R | 5251AR1222R | 5251AR1222R | 5251AR1222R | 5251AR1222R | |
| 352380 | AIR GUIDE | 5238A10009A | 5238A10009A | 5238A10009A | 5238A10009A | 5238A10009A | |
| 352380 | AIR GUIDE | 5238A10010A | 5238A10010A | 5238A10010A | 5238A10010A | 5238A10010A | |
| 354210 | EVAPORATOR ASSEMBLY,FIRST | 5421A20104A | 5421A20104B | 5421A20104A | 5421A20104B | 5421A20104A | |
| 359012 | FAN,TURBO | 5900A00004A | 5900A00004A | 5900A00004A | 5900A00004A | 5900A00004A | |
| 359012 | FAN,TURBO | 5900A00005A | 5900A00005A | 5900A00005A | 5900A00005A | 5900A00005A | |



| LOCATION No. | DESCRIPTION | PART NO. | | REMARKS |
|--------------|----------------------------------|-------------|-------------|---------|
| | | LRNN186VBA0 | LRNN246VBA0 | |
| 132100 | FRAME | | 3022AP1283B | |
| 135314 | GRILLE ASSEMBLY,INLET SUB | | 5237AP2817B | |
| 135316 | GRILLE ASSEMBLY,DIFFUSER(INDOOR) | | 3531A10272B | |
| 137211 | PANEL ASSEMBLY,FRONT(INDOOR) | | 3720AP2767P | |
| 146811 | MOTOR ASSEMBLY,STEP | | 4681AR2727G | |
| 152302 | FILTER(MECH),A/C | | 5230AP7093A | |
| 159901 | VANE ASSY | | 5991AP7334C | |
| 159911 | VANE ASSY,HORIZONTAL | | 5991AP2867B | |
| 166000 | SWITCH,PUSH | | 6600AP2059B | |
| 166000 | SWITCH,PUSH | | 6600AP2059B | |
| 235450 | DISPLAY ASSEMBLY (MECH) | | 3545AP7224B | |
| 237900 | WINDOW,DISPLAY | | 3790AP7080A | |
| 249951 | CONTROL BOX ASSEMBLY,INDOOR | 4995A10107E | 4995A10107F | |
| 263230 | THERMISTOR ASSEMBLY(ROOM) | | 6323A30004D | |
| 263230 | THERMISTOR ASSEMBLY(PIPE-IN) | | 6323A30002C | |
| 263230 | THERMISTOR ASSEMBLY(PIPE-OUT) | | 6323AQ3226Y | |
| 267110 | REMOTE CONTROLLER ASSEMBLY | | 6711A10002A | |
| 268712 | PWB(PCB) ASSY,DISPLAY | | 6871AQ3263A | |
| 268716 | PWB(PCB) ASSEMBLY,MAIN | 6871A20701D | 6871A20701F | |
| 330870 | DRAIN PAN ASSEMBLY | | 3087AP7233A | |
| 342800 | BEARING | | 3H02821B | |
| 346810 | MOTOR ASSEMBLY,INDOOR | 4681AP2306M | 4681AP2306N | |
| 352115 | TUBE ASSEMBLY,EVAPORATOR IN | | 5211A22147A | |
| 35211A | TUBE ASSEMBLY,SUCTION INDOOR | | 5211AP2813J | |
| 352150 | HOSE ASSY,DRAIN | | 5251AP2460B | |
| 354210 | EVAPORATOR ASSEMBLY,FIRST | | 5421AP2812A | |
| 359010 | FAN ASSY,CROSS FLOW | | 5901AR2351E | |
| 733010 | PLATE ASSEMBLY,INSTALL(R) | | 3301AP7519A | |
| 733010 | PLATE ASSEMBLY,INSTALL(L) | | 3301AP7519B | |
| W0CZZ | CAPACITOR, DRAWING | | 3H00671A | |
| 152380 | AIR GUIDE | | 5238AP2337A | |
| 147901 | BARRIER, INDOOR(L) | | 4791A20042A | |
| 147901 | BARRIER, INDOOR(R) | | 4791A20042B | |
| 137213 | PANEL ASSEMBLY, SIDE | | 3721AP2566A | |
| 137213 | PANEL ASSEMBLY, SIDE | | 3721AP2570A | |

LRUV / LTUN5(5~8HP) Series (Multi V)

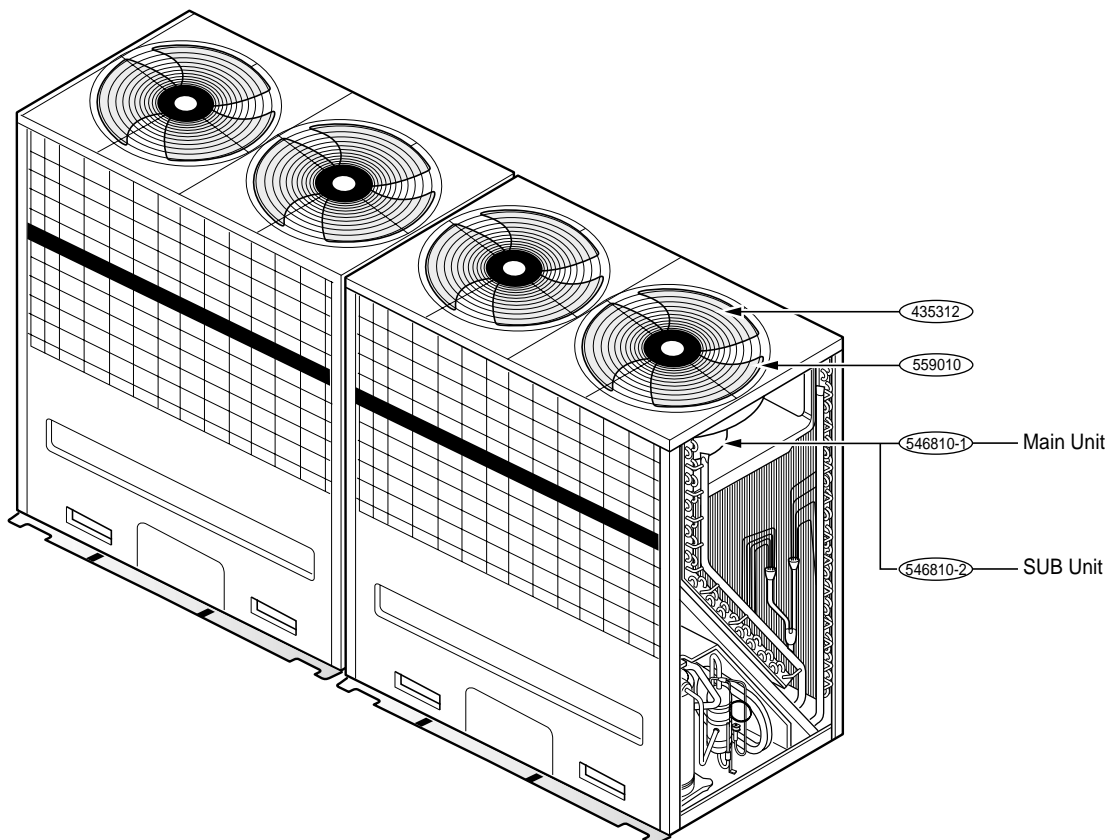
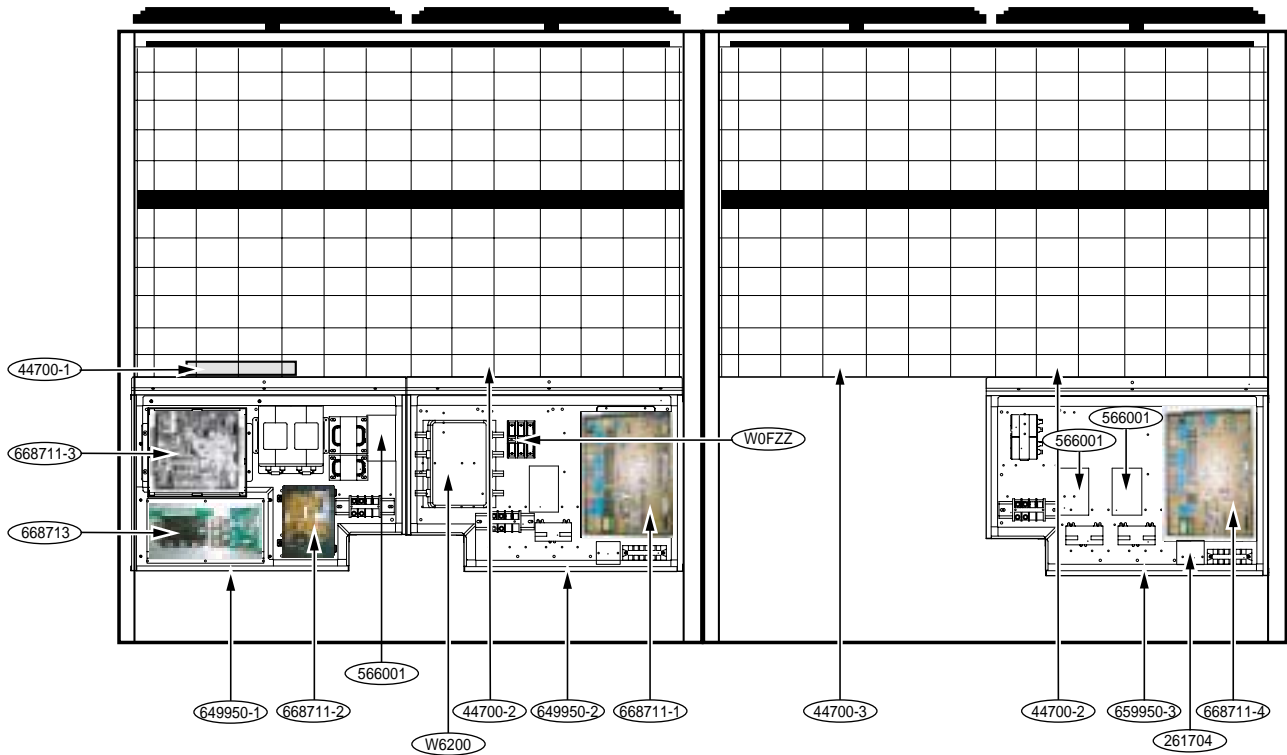


Exploded View & Replacement Parts List

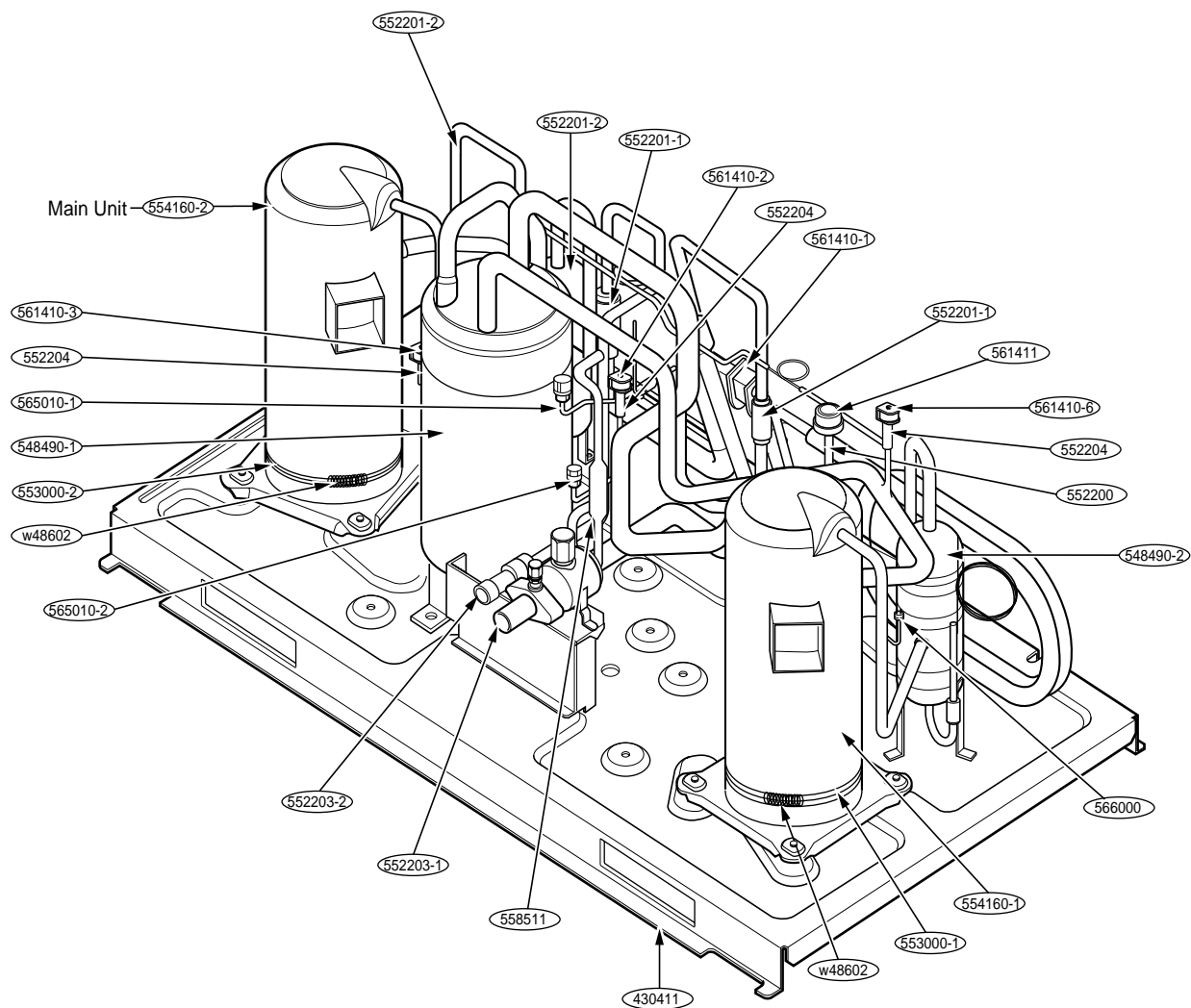
| LOCATION NO. | DESCRIPTION | PART NO. | | REMARK |
|--------------|---------------------------------|-------------|-------------|--------|
| | | LRUN508T0 | LRUN608T0 | |
| 554160 | COMPRESSOR SET | 2520UNGV1AA | 2520UNGV1AA | |
| 548490 | ACCUMULATOR | 4848A20001D | 4848A20001D | |
| 553000 | HEATER, SUMP | 5300A20008A | 5300A20008A | |
| 352111 | TUBE ASSEMBLY, CONNECTOR | 5211A22131A | 5211A22131A | |
| 552201 | VALVE, CHECK | 3A01020D | 3A01020D | |
| 552203 | VALVE, SERVICE | 5220A90012H | 5220A90012H | |
| 552203 | VALVE, SERVICE | 5220A90012F | 5220A90012G | |
| 566000 | SWITCH, PRESSURE | 6600AG3057A | 6600AG3057A | |
| 552200 | VALVE, EXPANSION BODY | 5220A90001B | 5220A90001B | |
| 552204 | VALVE, SOLENOID | 5220A90002A | 5220A90002A | |
| 552204 | VALVE, SOLENOID | 5220A90008B | 5220A90008B | |
| 552202 | VALVE, REVERSING | 5220AP3777C | 5220AP3777C | |
| 159910 | VALVE ASSEMBLY | 5221A20004P | 5221A20004P | |
| 558511 | DRIER ASSEMBLY | 5851A20002A | 5851A20002A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004A | 6501A20004A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004B | 6501A20004B | |
| 561411 | COIL ASSEMBLY, EXPANSION | 6141A20009J | 6141A20009J | |
| 561410 | COIL ASSEMBLY, SOLENOID | 6141A10001H | 6141A10001H | |
| 561410 | COIL ASSEMBLY, SOLENOID | 6141A10001G | 6141A10001G | |
| 561410 | COIL ASSEMBLY, REVERSING VALVE | 6141A20010F | 6141A20010F | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009B | 6323A20009B | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009C | 6323A20009C | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009G | 6323A20009G | |
| 546810 | MOTOR ASSEMBLY, OUTDOOR | 4681A10029A | 4681A10029A | |
| 559010 | FAN ASSEMBLY PROPELLER | 5901A10029A | 5901A10029A | |
| 649950 | CONTROL BOX ASSEMBLY, OUTDOOR | 4995A10109C | 4995A10109C | |
| 668711 | PWB(PCB)ASSEMBLY, MAIN(OUTDOOR) | 6871A10076C | 6871A10076C | |
| 668713 | PWB(PCB)ASSEMBLY, SUB | 6871A20133G | 6871A20133G | |
| 668711 | PWB(PCB)ASSEMBLY, MAIN(OUTDOOR) | 6871A10145A | 6871A10145A | |
| 668711 | PWB(PCB)ASSEMBLY, MAIN(OUTDOOR) | 6871A10146A | 6871A10146A | |
| 566001 | SWITCH, MAGNET | 6600B000048 | 6600B000048 | |
| 346811 | MOTOR ASSEMBLY, SINGLE | 4681A21001A | 4681A21001A | |
| 649950 | CONTROL BOX ASSEMBLY, OUTDOOR | 4995A10171G | 4995A10171L | |
| 668711 | PWB(PCB)ASSEMBLY, MAIN(OUTDOOR) | 6871A30036L | 6871A30036P | |
| 261704 | TRANSFORMER, POWER | 6170A20016D | 6170A20016D | |
| W6200 | FILTER(CIRC), EMC | 6200J000057 | 6200J000057 | |
| W0FZZ | FUSE, DRAWING | 0FZZA90001F | 0FZZA90001F | |

Main Unit

Sub Unit



LRUV (10~14HP) Series (Multi V)



LRUV100BT0

| LOCATION NO. | DESCRIPTION | PART NO. | REMARK |
|--------------|---------------------------------|-------------|--------|
| | | LRUV100BT0 | |
| 554160 | COMPRESSOR SET | 2520UNCV2BA | |
| 554160 | COMPRESSOR SET | 2520UNER2AA | |
| 548490 | ACCUMULATOR ASSEMBLY(MECH) | 4849A10038A | |
| 352111 | TUBE ASSEMBLY,CONNECTOR | 5211A11040A | |
| 553000 | HEATER,SUMP | 5300A20008A | |
| 553000 | HEATER,SUMP | 5300A20008B | |
| W48602 | CLAMP,SPRING | 4H01930A | |
| 552203 | VALVE,SERVICE | 5220A90012A | |
| 552203 | VALVE,SERVICE | 5220A20042A | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11023A | |
| 552201 | VALVE,CHECK | 3A01020L | |
| 566000 | SWITCH,PRESSURE | 6600AG3057A | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11024A | |
| 552204 | VALVE,SOLENOID | 5220A90002A | |
| 552200 | VALVE,EXPANSION BODY | 5220A90001B | |
| 552204 | VALVE,SOLENOID | 5220A90008B | |
| 558511 | DRIER ASSEMBLY | 5851A20002A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004B | |
| 561411 | COIL ASSEMBLY,EXPANSION | 6141A20009J | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001G | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001H | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001J | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009B | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009C | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009D | |
| 546810 | MOTOR ASSEMBLY,OUTDOOR | 4681A10029A | |
| 559010 | FAN ASSEMBLY,PROPELLER | 5901A10029A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10164A | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A30076F | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10145A | |
| 668713 | PWB(PCB) ASSEMBLY,SUB | 6871A20133G | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10146A | |
| 346811 | MOTOR ASSEMBLY,SINGLE | 4681A21001A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10165A | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10206A | |
| 261704 | TRANSFORMER,POWER | 6170A20016A | |
| 566001 | SWITCH,MAGNET | 6600B000066 | |
| W0FZZ | FUSE,DRAWING | 0FZZA90001L | |
| W6200 | FILTER(CIRC),EMC | 6200J000035 | |

LRUV1008T0

| LOCATION NO. | DESCRIPTION | PART NO. | REMARK |
|--------------|---------------------------------|-------------|--------|
| | | LRUV1008T0 | |
| 554160 | COMPRESSOR SET | 2520UNGV1AA | |
| 554160 | COMPRESSOR SET | 2520UNEY2AA | |
| 548490 | ACCUMULATOR ASSEMBLY(MECH) | 4849A10038A | |
| 352111 | TUBE ASSEMBLY,CONNECTOR | 5211A11040A | |
| 553000 | HEATER,SUMP | 5300A20008A | |
| 553000 | HEATER,SUMP | 5300A20008B | |
| w48602 | CLAMP,SPRING | 4H01930A | |
| 552203 | VALVE,SERVICE | 5220A90012A | |
| 552203 | VALVE,SERVICE | 5220A20042A | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11023A | |
| 552201 | VALVE,CHECK | 3A01020L | |
| 566000 | SWITCH,PRESSURE | 6600AG3057A | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11024A | |
| 552204 | VALVE,SOLENOID | 5220A90002A | |
| 552200 | VALVE,EXPANSION BODY | 5220A90001B | |
| 552204 | VALVE,SOLENOID | 5220A90008B | |
| 558511 | DRIER ASSEMBLY | 5851A20002A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004B | |
| 561411 | COIL ASSEMBLY,EXPANSION | 6141A20009J | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001G | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001H | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001J | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009B | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009C | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009D | |
| 546810 | MOTOR ASSEMBLY,OUTDOOR | 4681A10029A | |
| 559010 | FAN ASSEMBLY,PROPELLER | 5901A10029A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10109C | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10076C | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10145A | |
| 668713 | PWB(PCB) ASSEMBLY,SUB | 6871A20133G | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10146A | |
| 346811 | MOTOR ASSEMBLY,SINGLE | 4681A21001A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10135R | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A30053B | |
| 261704 | TRANSFORMER,POWER | 6170A20016D | |
| 566001 | SWITCH,MAGNET | 6600B000048 | |
| W0FZZ | FUSE,DRAWING | 0FZZA90001F | |
| W6200 | FILTER(CIRC),EMC | 6200JB8009U | |

LRUV1009T0

| LOCATION NO. | DESCRIPTION | PART NO. | REMARK |
|--------------|---------------------------------|-------------|--------|
| | | LRUV1009T0 | |
| 554160 | COMPRESSOR SET | 2520UNGV1AA | |
| 554160 | COMPRESSOR SET | 2520UNEU1CA | |
| 548490 | ACCUMULATOR ASSEMBLY(MECH) | 4849A10038A | |
| 352111 | TUBE ASSEMBLY,CONNECTOR | 5211A11040A | |
| 553000 | HEATER,SUMP | 5300A20008A | |
| 553000 | HEATER,SUMP | 5300A20008B | |
| w48602 | CLAMP,SPRING | 4H01930A | |
| 552203 | VALVE,SERVICE | 5220A90012A | |
| 552203 | VALVE,SERVICE | 5220A20042A | |
| 552203 | VALVE,SERVICE | 2A00499M | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11023A | |
| 552201 | VALVE,CHECK | 3A01020L | |
| 566000 | SWITCH,PRESSURE | 6600AG3057A | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11024A | |
| 552204 | VALVE,SOLENOID | 5220A90002A | |
| 552200 | VALVE,EXPANSION BODY | 5220A90001B | |
| 552204 | VALVE,SOLENOID | 5220A90008B | |
| 558511 | DRIER ASSEMBLY | 5851A20002A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004B | |
| 561411 | COIL ASSEMBLY,EXPANSION | 6141A20009J | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001G | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001H | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001J | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009B | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009C | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009D | |
| 546810 | MOTOR ASSEMBLY,OUTDOOR | 4681A10029A | |
| 559010 | FAN ASSEMBLY,PROPELLER | 5901A10029A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10109A | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10076C | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10145A | |
| 668713 | PWB(PCB) ASSEMBLY,SUB | 6871A20133G | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10146A | |
| 346811 | MOTOR ASSEMBLY,SINGLE | 4681A21001A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10135M | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A30053A | |
| 261704 | TRANSFORMER,POWER | 6170A20016D | |
| 566001 | SWITCH,MAGNET | 6600B000048 | |
| W0FZZ | FUSE,DRAWING | 0FZZA90001F | |
| W6200 | FILTER(CIRC),EMC | 6200JB8009U | |

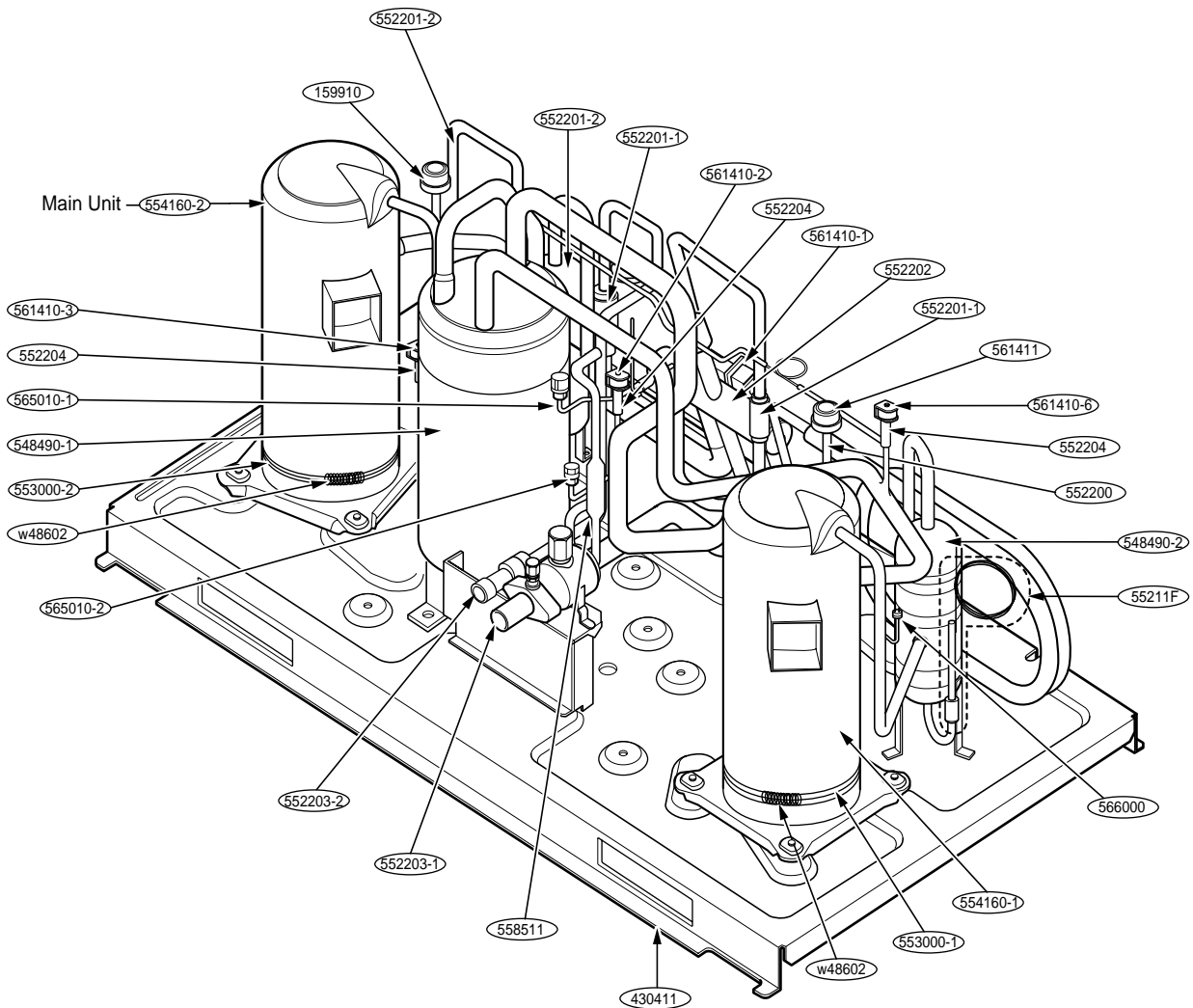
LRUV120BT0

| LOCATION NO. | DESCRIPTION | PART NO. | REMARK |
|--------------|---------------------------------|-------------|--------|
| | | LRUV120BT0 | |
| 554160 | COMPRESSOR SET | 2520UNCV2BA | |
| 554160 | COMPRESSOR SET | 2520UNER2AA | |
| 548490 | ACCUMULATOR ASSEMBLY(MECH) | 4849A10038A | |
| 352111 | TUBE ASSEMBLY,CONNECTOR | 5211A11040A | |
| 553000 | HEATER,SUMP | 5300A20008A | |
| 553000 | HEATER,SUMP | 5300A20008B | |
| w48602 | CLAMP,SPRING | 4H01930A | |
| 552203 | VALVE,SERVICE | 5220A90012A | |
| 552203 | VALVE,SERVICE | 5220A20042A | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11023A | |
| 566000 | SWITCH,PRESSURE | 6600AG3057A | |
| 552201 | VALVE,CHECK | 3A01020L | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11024A | |
| 566000 | SWITCH,PRESSURE | 6600AG3057A | |
| 552201 | VALVE,CHECK | 3A01020L | |
| 552204 | VALVE,SOLENOID | 5220A90002A | |
| 552204 | VALVE,SOLENOID | 5220A90008B | |
| 552204 | VALVE,SOLENOID | 5220A90002A | |
| 552200 | VALVE,EXPANSION BODY | 5220A90001B | |
| 558511 | DRIER ASSEMBLY | 5851A20002A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004B | |
| 561411 | COIL ASSEMBLY,EXPANSION | 6141A20009J | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001G | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001H | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001J | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009B | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009C | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009D | |
| 546810 | MOTOR ASSEMBLY,OUTDOOR | 4681A10029A | |
| 559010 | FAN ASSEMBLY,PROPELLER | 5901A10029A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10164A | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10076F | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10145A | |
| 668713 | PWB(PCB) ASSEMBLY,SUB | 6871A20133G | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10146A | |
| 346811 | MOTOR ASSEMBLY,SINGLE | 4681A21001A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10165B | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A30053J | |
| 261704 | TRANSFORMER,POWER | 6170A20016A | |
| 566001 | SWITCH,MAGNET | 6600B000066 | |
| W0FZZ | FUSE,DRAWING | 0FZZA90001L | |
| W6200 | FILTER(CIRC),EMC | 6200J000035 | |

LRUV120BT0

| LOCATION NO. | DESCRIPTION | PART NO. | REMARK |
|--------------|---------------------------------|-------------|--------|
| | | LRUV1408T0 | |
| 554160 | COMPRESSOR SET | 2520UNGV1AA | |
| 554160 | COMPRESSOR SET | 2520UNEY2AA | |
| 548490 | ACCUMULATOR ASSEMBLY(MECH) | 4849A10038A | |
| 352111 | TUBE ASSEMBLY,CONNECTOR | 5211A11040A | |
| 553000 | HEATER,SUMP | 5300A20008A | |
| 553000 | HEATER,SUMP | 5300A20008B | |
| w48602 | CLAMP,SPRING | 4H01930A | |
| 552203 | VALVE,SERVICE | 5220A90012A | |
| 552203 | VALVE,SERVICE | 5220A20042A | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11023A | |
| 552201 | VALVE,CHECK | 3A01020L | |
| 566000 | SWITCH,PRESSURE | 6600AG3057A | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11024A | |
| 552204 | VALVE,SOLENOID | 5220A90002A | |
| 552200 | VALVE,EXPANSION BODY | 5220A90001B | |
| 552204 | VALVE,SOLENOID | 5220A90008B | |
| 558511 | DRIER ASSEMBLY | 5851A20002A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004B | |
| 561411 | COIL ASSEMBLY,EXPANSION | 6141A20009J | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001G | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001H | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001J | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009B | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009C | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009D | |
| 546810 | MOTOR ASSEMBLY,OUTDOOR | 4681A10029A | |
| 559010 | FAN ASSEMBLY,PROPELLER | 5901A10029A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10109C | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A30076C | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10145A | |
| 668713 | PWB(PCB) ASSEMBLY,SUB | 6871A20133G | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10146A | |
| 346811 | MOTOR ASSEMBLY,SINGLE | 4681A21001A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10135U | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A30053U | |
| 261704 | TRANSFORMER,POWER | 6170A20016D | |
| 566001 | SWITCH,MAGNET | 6600B000048 | |
| W0FZZ | FUSE,DRAWING | 0FZZA90001F | |
| W6200 | FILTER(CIRC),EMC | 6200JB8009U | |

LRUN (8~14HP) Series (Multi V)



LRUN808T0

| LOCATION NO. | DESCRIPTION | PART NO. | REMARK |
|--------------|---------------------------------|-------------|--------|
| | | LRUN808T0 | |
| 554160 | COMPRESSOR SET | 2520UNGV1AA | |
| 554160 | COMPRESSOR SET | 2520UNEY2AA | |
| 548490 | ACCUMULATOR ASSEMBLY(MECH) | 4849A10038A | |
| 352111 | TUBE ASSEMBLY,CONNECTOR | 5211A11040A | |
| 553000 | HEATER,SUMP | 5300A20008A | |
| 553000 | HEATER,SUMP | 5300A20008B | |
| w48602 | CLAMP,SPRING | 4H01930A | |
| 552203 | VALVE,SERVICE | 5220A90012A | |
| 552203 | VALVE,SERVICE | 5220A20042A | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11023A | |
| 552201 | VALVE,CHECK | 3A01020L | |
| 566000 | SWITCH,PRESSURE | 6600AG3057A | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11024A | |
| 552202 | VALVE,REVERSING | 5220A20039A | |
| 552204 | VALVE,SOLENOID | 5220A90008B | |
| 552204 | VALVE,SOLENOID | 5220A90002A | |
| 552200 | VALVE,EXPANSION BODY | 5220A90001B | |
| 159910 | VALVE ASSEMBLY | 5221A20004P | |
| 552201 | VALVE,CHECK | 3A01020D | |
| 558511 | DRIER ASSEMBLY | 5851A20002A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004B | |
| 561410 | COIL ASSEMBLY,REVERSING VALVE | 6141A20010F | |
| 561411 | COIL ASSEMBLY,EXPANSION | 6141A20009J | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001G | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001H | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001J | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009B | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009C | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009D | |
| 546810 | MOTOR ASSEMBLY,OUTDOOR | 4681A10029A | |
| 559010 | FAN ASSEMBLY,PROPELLER | 5901A10029A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10109C | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10076C | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10145A | |
| 668713 | PWB(PCB) ASSEMBLY,SUB | 6871A20133G | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10146A | |
| 346811 | MOTOR ASSEMBLY,SINGLE | 4681A21001A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10135N | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A30053L | |
| 261704 | TRANSFORMER,POWER | 6170A20016D | |
| 566001 | SWITCH,MAGNET | 6600B000048 | |
| W0FZZ | FUSE,DRAWING | 0FZZA90001F | |
| W6200 | FILTER(CIRC),EMC | 6200JB8009U | |

LRUN1008T0

| LOCATION NO. | DESCRIPTION | PART NO. | REMARK |
|--------------|---------------------------------|-------------|--------|
| | | LRUN1008T0 | |
| 554160 | COMPRESSOR SET | 2520UNGV1AA | |
| 554160 | COMPRESSOR SET | 2520UNEY2AA | |
| 548490 | ACCUMULATOR ASSEMBLY(MECH) | 4849A10038A | |
| 352111 | TUBE ASSEMBLY,CONNECTOR | 5211A11040A | |
| 553000 | HEATER,SUMP | 5300A20008A | |
| 553000 | HEATER,SUMP | 5300A20008B | |
| w48602 | CLAMP,SPRING | 4H01930A | |
| 552203 | VALVE,SERVICE | 5220A90012A | |
| 552203 | VALVE,SERVICE | 5220A20042A | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11023A | |
| 552201 | VALVE,CHECK | 3A01020L | |
| 566000 | SWITCH,PRESSURE | 6600AG3057A | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11024A | |
| 552202 | VALVE,REVERSING | 5220A20039A | |
| 552204 | VALVE,SOLENOID | 5220A90008B | |
| 552204 | VALVE,SOLENOID | 5220A90002A | |
| 552200 | VALVE,EXPANSION BODY | 5220A90001B | |
| 159910 | VALVE ASSEMBLY | 5221A20004P | |
| 552201 | VALVE,CHECK | 3A01020D | |
| 558511 | DRIER ASSEMBLY | 5851A20002A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004B | |
| 561410 | COIL ASSEMBLY,REVERSING VALVE | 6141A20010F | |
| 561411 | COIL ASSEMBLY,EXPANSION | 6141A20009J | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001G | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001H | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001J | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009B | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009C | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009D | |
| 546810 | MOTOR ASSEMBLY,OUTDOOR | 4681A10029A | |
| 559010 | FAN ASSEMBLY,PROPELLER | 5901A10029A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10109C | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10076C | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10145A | |
| 668713 | PWB(PCB) ASSEMBLY,SUB | 6871A20133G | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10146A | |
| 346811 | MOTOR ASSEMBLY,SINGLE | 4681A21001A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10135K | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A30053C | |
| 261704 | TRANSFORMER,POWER | 6170A20016D | |
| 566001 | SWITCH,MAGNET | 6600B000048 | |
| W0FZZ | FUSE,DRAWING | 0FZZA90001F | |
| W6200 | FILTER(CIRC),EMC | 6200JB8009U | |

LRUN1009T0

| LOCATION NO. | DESCRIPTION | PART NO. LRUN1009T0 | REMARK |
|--------------|------------------------------------|------------------------|--------|
| 352111 | TUBE ASSEMBLY,CONNECTOR | 5211A11040A | |
| 430411 | BASE ASSEMBLY,WELD[OUTDOOR] | 3041A10048A | |
| 435312 | GRILLE ASSEMBLY,DISCHARGE(OUTDOOR) | 3531A20211B | |
| 44700 | BARRIER,OUTDOOR | 4790A20052A | |
| 44700 | BARRIER,OUTDOOR | 4790A20052B | |
| 546810 | MOTOR ASSEMBLY,OUTDOOR | 4681A10029A | |
| 548490 | ACCUMULATOR ASSEMBLY(MECH) | 4849A10038A | |
| 552200 | VALVE,EXPANSION BODY | 5220A90001B | |
| 552201 | VALVE,CHECK | 3A01020D | |
| 552201 | VALVE,CHECK | 3A01020L | |
| 552202 | VALVE,REVERSING | 5220A20039A | |
| 552203 | VALVE,SERVICE | 5220A20042A | |
| 552203 | VALVE,SERVICE | 5220A90012A | |
| 552204 | VALVE,SOLENOID | 5220A90002A | |
| 552204 | VALVE,SOLENOID | 5220A90002A | |
| 553000 | HEATER,SUMP | 5300A20008A | |
| 553000 | HEATER,SUMP | 5300A20008B | |
| 554160 | COMPRESSOR SET | 2520UNEU1CA | |
| 554160 | COMPRESSOR SET | 2520UNGV1AA | |
| 558511 | DRIER ASSEMBLY | 5851A20002A | |
| 559010 | FAN ASSEMBLY,PROPELLER | 5901A10029A | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001G | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001H | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001J | |
| 561410 | COIL ASSEMBLY,REVERSING VALVE | 6141A20010F | |
| 561411 | COIL ASSEMBLY,EXPANSION | 6141A20009J | |
| 565010 | SENSOR ASSEMBLY | 6501A20004A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004B | |
| 566000 | SWITCH,PRESSURE | 6600AG3057A | |
| 566000 | SWITCH,PRESSURE | 6600AG3057A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10109C | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10135E | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10076C | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10145A | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10146A | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A30036D | |
| 668713 | PWB(PCB) ASSEMBLY,SUB | 6871A20133G | |
| w48602 | CLAMP,SPRING | 4H01930A | |
| 552204 | VALVE,SOLENOID | 5220A90008B | |
| 55211G | TUBE ASSEMBLY,EXPANSION | 5211A10438A | |

LRUN100BT0

| LOCATION NO. | DESCRIPTION | PART NO. | REMARK |
|--------------|---------------------------------|-------------|--------|
| | | LRUN100BT0 | |
| 554160 | COMPRESSOR SET | 2520UNCV2CA | |
| 554160 | COMPRESSOR SET | 2520UNER2AA | |
| 548490 | ACCUMULATOR ASSEMBLY(MECH) | 4849A10038A | |
| 352111 | TUBE ASSEMBLY,CONNECTOR | 5211A11040A | |
| 553000 | HEATER,SUMP | 5300A20008A | |
| 553000 | HEATER,SUMP | 5300A20008B | |
| w48602 | CLAMP,SPRING | 4H01930A | |
| 552203 | VALVE,SERVICE | 5220A90012A | |
| 552203 | VALVE,SERVICE | 5220A20042A | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11023A | |
| 552201 | VALVE,CHECK | 3A01020L | |
| 566000 | SWITCH,PRESSURE | 6600AG3057A | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11024A | |
| 552202 | VALVE,REVERSING | 5220A20039A | |
| 552204 | VALVE,SOLENOID | 5220A90008B | |
| 552204 | VALVE,SOLENOID | 5220A90002A | |
| 552200 | VALVE,EXPANSION BODY | 5220A90001B | |
| 159910 | VALVE ASSEMBLY | 5221A20004P | |
| 552201 | VALVE,CHECK | 3A01020D | |
| 558511 | DRIER ASSEMBLY | 5851A20002A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004B | |
| 561410 | COIL ASSEMBLY,REVERSING VALVE | 6141A20010F | |
| 561411 | COIL ASSEMBLY,EXPANSION | 6141A20009J | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001G | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001H | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001J | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009B | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009C | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009D | |
| 546810 | MOTOR ASSEMBLY,OUTDOOR | 4681A10029A | |
| 559010 | FAN ASSEMBLY,PROPELLER | 5901A10029A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10164A | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A30076F | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10145A | |
| 668713 | PWB(PCB) ASSEMBLY,SUB | 6871A20133G | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10146A | |
| 346811 | MOTOR ASSEMBLY,SINGLE | 4681A21001A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10165A | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10206A | |
| 261704 | TRANSFORMER,POWER | 6170A20016A | |
| 566001 | SWITCH,MAGNET | 6600B000066 | |
| W0FZZ | FUSE,DRAWING | 0FZZA90001L | |
| W6200 | FILTER(CIRC),EMC | 6200J000035 | |

LRUN1208T0

| LOCATION NO. | DESCRIPTION | PART NO. LRUN1208T0 | REMARK |
|--------------|---------------------------------|------------------------|--------|
| 554160 | COMPRESSOR SET | 2520UNGV1AA | |
| 554160 | COMPRESSOR SET | 2520UNEY2AA | |
| 548490 | ACCUMULATOR ASSEMBLY(MECH) | 4849A10038A | |
| 352111 | TUBE ASSEMBLY,CONNECTOR | 5211A11040A | |
| 553000 | HEATER,SUMP | 5300A20008A | |
| 553000 | HEATER,SUMP | 5300A20008B | |
| w48602 | CLAMP,SPRING | 4H01930A | |
| 552203 | VALVE,SERVICE | 5220A90012A | |
| 552203 | VALVE,SERVICE | 5220A20042A | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11023A | |
| 566000 | SWITCH,PRESSURE | 6600AG3057A | |
| 552201 | VALVE,CHECK | 3A01020L | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11024A | |
| 566000 | SWITCH,PRESSURE | 6600AG3057A | |
| 552201 | VALVE,CHECK | 3A01020L | |
| 552202 | VALVE,REVERSING | 5220A20039A | |
| 552204 | VALVE,SOLENOID | 5220A90008B | |
| 552204 | VALVE,SOLENOID | 5220A90002A | |
| 552204 | VALVE,SOLENOID | 5220A90002A | |
| 552200 | VALVE,EXPANSION BODY | 5220A90001B | |
| 159910 | VALVE ASSEMBLY | 5221A20004P | |
| 552201 | VALVE,CHECK | 3A01020D | |
| 558511 | DRIER ASSEMBLY | 5851A20002A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004B | |
| 561410 | COIL ASSEMBLY,REVERSING VALVE | 6141A20010F | |
| 561411 | COIL ASSEMBLY,EXPANSION | 6141A20009J | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001G | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001H | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001J | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009B | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009C | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009D | |
| 546810 | MOTOR ASSEMBLY,OUTDOOR | 4681A10029A | |
| 559010 | FAN ASSEMBLY,PROPELLER | 5901A10029A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10109C | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10076C | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10145A | |
| 668713 | PWB(PCB) ASSEMBLY,SUB | 6871A20133G | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10146A | |
| 566001 | SWITCH,MAGNET | 6600B000048 | |
| 346811 | MOTOR ASSEMBLY,SINGLE | 4681A21001A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10135T | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A30053W | |
| 261704 | TRANSFORMER,POWER | 6170A20016D | |
| 566001 | SWITCH,MAGNET | 6600B000048 | |
| W0FZZ | FUSE,DRAWING | 0FZZA90001F | |
| W6200 | FILTER(CIRC),EMC | 6200JB8009U | |

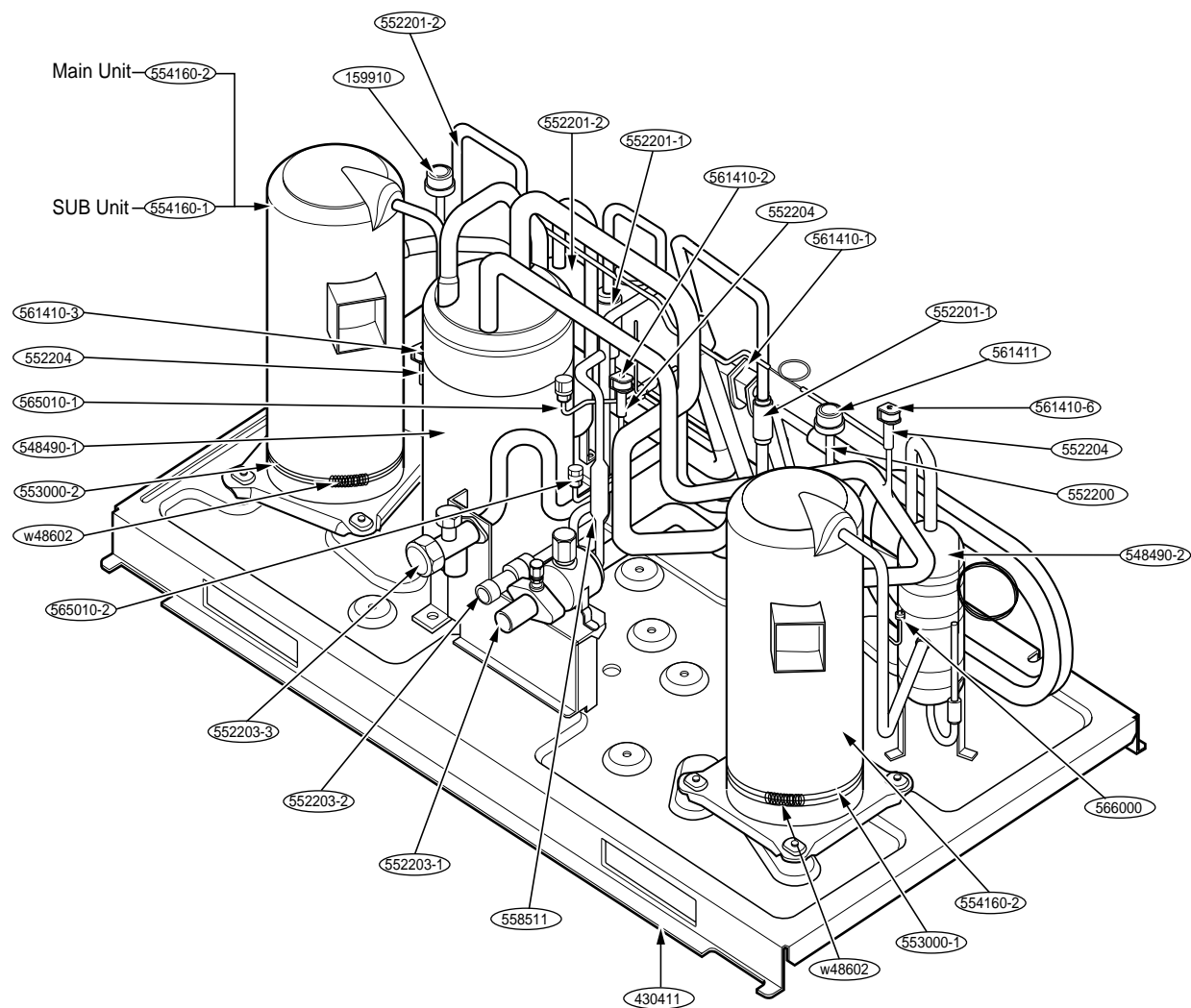
LRUN120BT0

| LOCATION NO. | DESCRIPTION | PART NO. LRUN120BT0 | REMARK |
|--------------|---------------------------------|------------------------|--------|
| 554160 | COMPRESSOR SET | 2520UNCV2CA | |
| 554160 | COMPRESSOR SET | 2520UNER2AA | |
| 548490 | ACCUMULATOR ASSEMBLY(MECH) | 4849A10038A | |
| 352111 | TUBE ASSEMBLY,CONNECTOR | 5211A11040A | |
| 553000 | HEATER,SUMP | 5300A20008A | |
| 553000 | HEATER,SUMP | 5300A20008B | |
| w48602 | CLAMP,SPRING | 4H01930A | |
| 552203 | VALVE,SERVICE | 5220A90012A | |
| 552203 | VALVE,SERVICE | 5220A20042A | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11023A | |
| 552201 | VALVE,CHECK | 3A01020L | |
| 566000 | SWITCH,PRESSURE | 6600AG3057A | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11024A | |
| 552202 | VALVE,REVERSING | 5220A20039A | |
| 552204 | VALVE,SOLENOID | 5220A90008B | |
| 552204 | VALVE,SOLENOID | 5220A90002A | |
| 552200 | VALVE,EXPANSION BODY | 5220A90001B | |
| 159910 | VALVE ASSEMBLY | 5221A20004P | |
| 552201 | VALVE,CHECK | 3A01020D | |
| 558511 | DRIER ASSEMBLY | 5851A20002A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004B | |
| 561410 | COIL ASSEMBLY,REVERSING VALVE | 6141A20010F | |
| 561411 | COIL ASSEMBLY,EXPANSION | 6141A20009J | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001G | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001H | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001J | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009B | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009C | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009D | |
| 546810 | MOTOR ASSEMBLY,OUTDOOR | 4681A10029A | |
| 559010 | FAN ASSEMBLY,PROPELLER | 5901A10029A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10164A | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A30076F | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10145A | |
| 668713 | PWB(PCB) ASSEMBLY,SUB | 6871A20133G | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10146A | |
| 346811 | MOTOR ASSEMBLY,SINGLE | 4681A21001A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10165B | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A30053J | |
| 261704 | TRANSFORMER,POWER | 6170A20016A | |
| 566001 | SWITCH,MAGNET | 6600B000066 | |
| W0FZZ | FUSE,DRAWING | 0FZZA90001L | |
| W6200 | FILTER(CIRC),EMC | 6200J000035 | |

LRUN1408T0

| LOCATION NO. | DESCRIPTION | PART NO. | REMARK |
|--------------|---------------------------------|-------------|--------|
| | | LRUN1408T0 | |
| 554160 | COMPRESSOR SET | 2520UNGV1AA | |
| 554160 | COMPRESSOR SET | 2520UNEY2AA | |
| 548490 | ACCUMULATOR ASSEMBLY(MECH) | 4849A10038A | |
| 352111 | TUBE ASSEMBLY,CONNECTOR | 5211A11040A | |
| 553000 | HEATER,SUMP | 5300A20008A | |
| 553000 | HEATER,SUMP | 5300A20008B | |
| w48602 | CLAMP,SPRING | 4H01930A | |
| 552203 | VALVE,SERVICE | 5220A90012A | |
| 552203 | VALVE,SERVICE | 5220A20042A | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11023A | |
| 566000 | SWITCH,PRESSURE | 6600AG3057A | |
| 552201 | VALVE,CHECK | 3A01020L | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11024A | |
| 566000 | SWITCH,PRESSURE | 6600AG3057A | |
| 552201 | VALVE,CHECK | 3A01020L | |
| 552202 | VALVE,REVERSING | 5220A20039A | |
| 552204 | VALVE,SOLENOID | 5220A90008B | |
| 552204 | VALVE,SOLENOID | 5220A90002A | |
| 552204 | VALVE,SOLENOID | 5220A90002A | |
| 552200 | VALVE,EXPANSION BODY | 5220A90001B | |
| 159910 | VALVE ASSEMBLY | 5221A20004P | |
| 552201 | VALVE,CHECK | 3A01020D | |
| 558511 | DRIER ASSEMBLY | 5851A20002A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004B | |
| 561410 | COIL ASSEMBLY,REVERSING VALVE | 6141A20010F | |
| 561411 | COIL ASSEMBLY,EXPANSION | 6141A20009J | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001G | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001H | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001J | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009B | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009C | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009D | |
| 546810 | MOTOR ASSEMBLY,OUTDOOR | 4681A10029A | |
| 559010 | FAN ASSEMBLY,PROPELLER | 5901A10029A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10109C | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10076C | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10145A | |
| 668713 | PWB(PCB) ASSEMBLY,SUB | 6871A20133G | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10146A | |
| 346811 | MOTOR ASSEMBLY,SINGLE | 4681A21001A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10135U | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A30053U | |
| 261704 | TRANSFORMER,POWER | 6170A20016D | |
| 566001 | SWITCH,MAGNET | 6600B000048 | |
| W0FZZ | FUSE,DRAWING | 0FZZA90001F | |
| W6200 | FILTER(CIRC),EMC | 6200JB8009U | |

LRUV(C) (16~40HP) Series (Multi V Plus)



LRUV1008TS0

| LOCATION NO. | DESCRIPTION | PART NO. | REMARK |
|--------------|---------------------------------|-------------|--------|
| | | LRUV1008TS0 | |
| 554160 | COMPRESSOR SET | 2520UNGV1AA | |
| 554160 | COMPRESSOR SET | 2520UNEY2AA | |
| 548490 | ACCUMULATOR ASSEMBLY(MECH) | 4849A10038A | |
| 352111 | TUBE ASSEMBLY,CONNECTOR | 5211A11040A | |
| 553000 | HEATER,SUMP | 5300A20008A | |
| 553000 | HEATER,SUMP | 5300A20008B | |
| w48602 | CLAMP,SPRING | 4H01930A | |
| 552203 | VALVE,SERVICE | 5220A90012A | |
| 552203 | VALVE,SERVICE | 5220A20042A | |
| 552203 | VALVE,SERVICE | 2A00499M | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11023A | |
| 552201 | VALVE,CHECK | 3A01020L | |
| 566000 | SWITCH,PRESSURE | 6600AG3057A | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11024A | |
| 552204 | VALVE,SOLENOID | 5220A90002A | |
| 552200 | VALVE,EXPANSION BODY | 5220A90001B | |
| 552204 | VALVE,SOLENOID | 5220A90008B | |
| 558511 | DRIER ASSEMBLY | 5851A20002A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004B | |
| 561411 | COIL ASSEMBLY,EXPANSION | 6141A20009J | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001G | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001H | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001J | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009B | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009C | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009D | |
| 546810 | MOTOR ASSEMBLY,OUTDOOR | 4681A10029A | |
| 559010 | FAN ASSEMBLY,PROPELLER | 5901A10029A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10109C | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10076C | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10145A | |
| 668713 | PWB(PCB) ASSEMBLY,SUB | 6871A20133G | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10146A | |
| 346811 | MOTOR ASSEMBLY,SINGLE | 4681A21001A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10153A | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A30036E | |
| 261704 | TRANSFORMER,POWER | 6170A20016D | |
| 566001 | SWITCH,MAGNET | 6600B000048 | |
| W0FZZ | FUSE,DRAWING | 0FZZA90001F | |
| W6200 | FILTER(CIRC),EMC | 6200JB8009U | |

LRUV1008TR0

| LOCATION NO. | DESCRIPTION | PART NO. | REMARK |
|--------------|---------------------------------|-------------|--------|
| | | LRUV1008TR0 | |
| 554160 | COMPRESSOR SET | 2520UNGV1AA | |
| 554160 | COMPRESSOR SET | 2520UNEY2AA | |
| 548490 | ACCUMULATOR ASSEMBLY(MECH) | 4849A10038A | |
| 352111 | TUBE ASSEMBLY,CONNECTOR | 5211A11040A | |
| 553000 | HEATER,SUMP | 5300A20008A | |
| 553000 | HEATER,SUMP | 5300A20008B | |
| w48602 | CLAMP,SPRING | 4H01930A | |
| 552203 | VALVE,SERVICE | 5220A90012A | |
| 552203 | VALVE,SERVICE | 5220A20042A | |
| 552203 | VALVE,SERVICE | 2A00499M | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11023A | |
| 552201 | VALVE,CHECK | 3A01020L | |
| 566000 | SWITCH,PRESSURE | 6600AG3057A | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11024A | |
| 552204 | VALVE,SOLENOID | 5220A90002A | |
| 552200 | VALVE,EXPANSION BODY | 5220A90001B | |
| 552204 | VALVE,SOLENOID | 5220A90008B | |
| 558511 | DRIER ASSEMBLY | 5851A20002A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004B | |
| 561411 | COIL ASSEMBLY,EXPANSION | 6141A20009J | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001G | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001H | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001J | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009B | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009C | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009D | |
| 546810 | MOTOR ASSEMBLY,OUTDOOR | 4681A10029A | |
| 559010 | FAN ASSEMBLY,PROPELLER | 5901A10029A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10109C | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10076C | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10145A | |
| 668713 | PWB(PCB) ASSEMBLY,SUB | 6871A20133G | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10146A | |
| 346811 | MOTOR ASSEMBLY,SINGLE | 4681A21001A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10135Q | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A30053F | |
| 261704 | TRANSFORMER,POWER | 6170A20016D | |
| 566001 | SWITCH,MAGNET | 6600B000048 | |
| W0FZZ | FUSE,DRAWING | 0FZZA90001F | |
| W6200 | FILTER(CIRC),EMC | 6200JB8009U | |

LRUV1408TR0

| LOCATION NO. | DESCRIPTION | PART NO. | REMARK |
|--------------|---------------------------------|-------------|--------|
| | | LRUV1408TR0 | |
| 554160 | COMPRESSOR SET | 2520UNGV1AA | |
| 554160 | COMPRESSOR SET | 2520UNEY2AA | |
| 548490 | ACCUMULATOR ASSEMBLY(MECH) | 4849A10038A | |
| 352111 | TUBE ASSEMBLY,CONNECTOR | 5211A11040A | |
| 553000 | HEATER,SUMP | 5300A20008A | |
| 553000 | HEATER,SUMP | 5300A20008B | |
| w48602 | CLAMP,SPRING | 4H01930A | |
| 552203 | VALVE,SERVICE | 5220A90012A | |
| 552203 | VALVE,SERVICE | 5220A20042A | |
| 552203 | VALVE,SERVICE | 2A00499M | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11023A | |
| 552201 | VALVE,CHECK | 3A01020L | |
| 566000 | SWITCH,PRESSURE | 6600AG3057A | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11024A | |
| 552204 | VALVE,SOLENOID | 5220A90002A | |
| 552200 | VALVE,EXPANSION BODY | 5220A90001B | |
| 552204 | VALVE,SOLENOID | 5220A90008B | |
| 558511 | DRIER ASSEMBLY | 5851A20002A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004B | |
| 561411 | COIL ASSEMBLY,EXPANSION | 6141A20009J | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001G | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001H | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001J | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009B | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009C | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009D | |
| 546810 | MOTOR ASSEMBLY,OUTDOOR | 4681A10029A | |
| 559010 | FAN ASSEMBLY,PROPELLER | 5901A10029A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10109C | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10076C | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10145A | |
| 668713 | PWB(PCB) ASSEMBLY,SUB | 6871A20133G | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10146A | |
| 346811 | MOTOR ASSEMBLY,SINGLE | 4681A21001A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10135P | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A30053V | |
| 261704 | TRANSFORMER,POWER | 6170A20016D | |
| 566001 | SWITCH,MAGNET | 6600B000048 | |
| W0FZZ | FUSE,DRAWING | 0FZZA90001F | |
| W6200 | FILTER(CIRC),EMC | 6200JB8009U | |

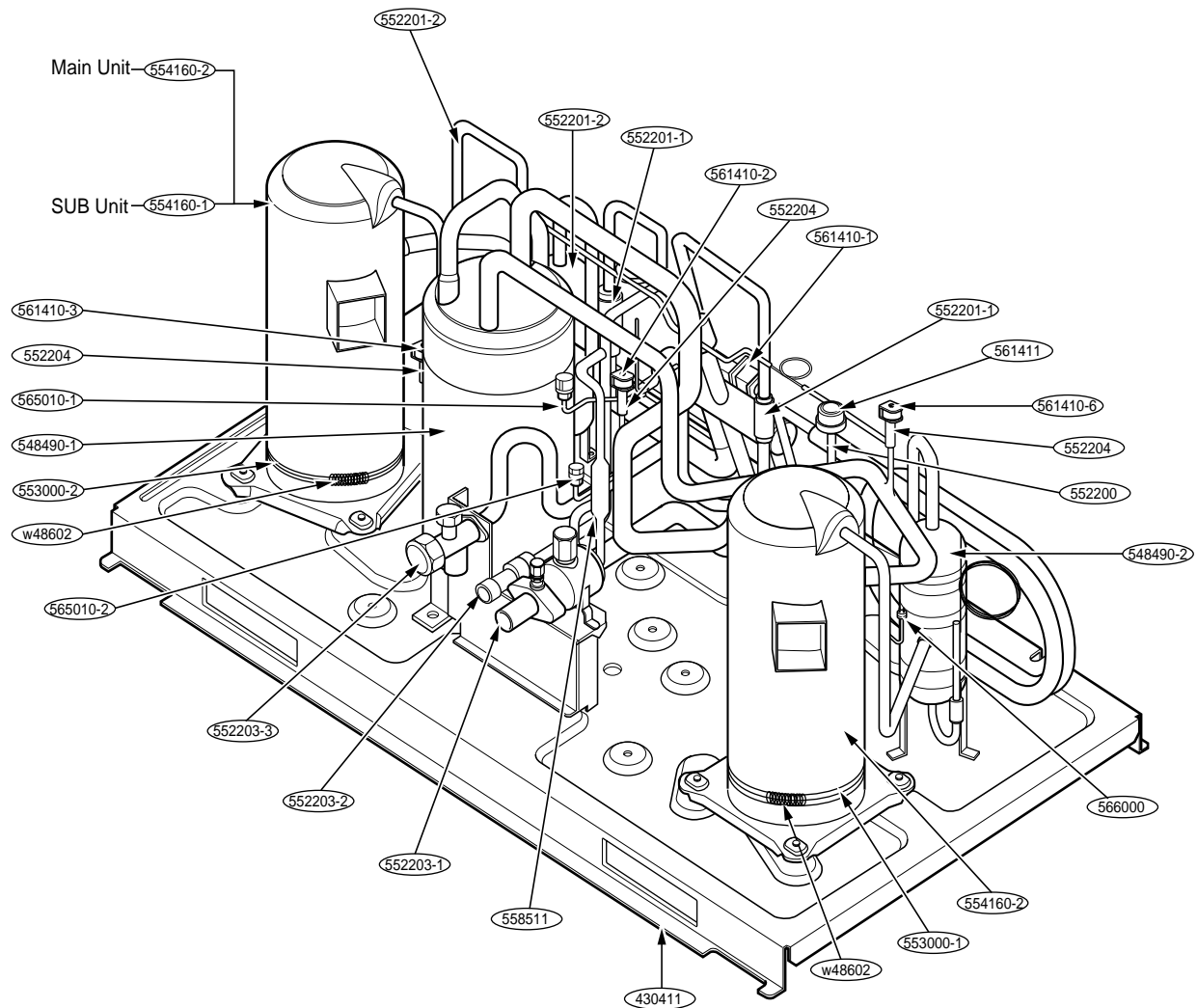
LRUC1008TS0

| LOCATION NO. | DESCRIPTION | PART NO. | REMARK |
|--------------|---------------------------------|-------------|--------|
| | | LRUC1008TS0 | |
| 554160 | COMPRESSOR SET | 2520UNEY2AA | |
| 548490 | ACCUMULATOR ASSEMBLY(MECH) | 4849A10038A | |
| 352111 | TUBE ASSEMBLY,CONNECTOR | 5211A11040A | |
| 553000 | HEATER,SUMP | 5300A20008A | |
| 553000 | HEATER,SUMP | 5300A20008B | |
| w48602 | CLAMP,SPRING | 4H01930A | |
| 552203 | VALVE,SERVICE | 5220A90012A | |
| 552203 | VALVE,SERVICE | 5220A20042A | |
| 552203 | VALVE,SERVICE | 2A00499M | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11023A | |
| 552201 | VALVE,CHECK | 3A01020L | |
| 566000 | SWITCH,PRESSURE | 6600AG3057A | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11024A | |
| 552204 | VALVE,SOLENOID | 5220A90002A | |
| 552200 | VALVE,EXPANSION BODY | 5220A90001B | |
| 552204 | VALVE,SOLENOID | 5220A90008B | |
| 558511 | DRIER ASSEMBLY | 5851A20002A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004B | |
| 561411 | COIL ASSEMBLY,EXPANSION | 6141A20009J | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001G | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001H | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001J | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009B | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009C | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009D | |
| 546810 | MOTOR ASSEMBLY,OUTDOOR | 4681A10014H | |
| 559010 | FAN ASSEMBLY,PROPELLER | 5901A10029A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10154A | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A30037E | |
| 261704 | TRANSFORMER,POWER | 6170A20016D | |
| 566001 | SWITCH,MAGNET | 6600B000048 | |

LRUC1008TR0

| LOCATION NO. | DESCRIPTION | PART NO. | REMARK |
|--------------|---------------------------------|-------------|--------|
| | | LRUC1008TR0 | |
| 554160 | COMPRESSOR SET | 2520UNEY2AA | |
| 548490 | ACCUMULATOR ASSEMBLY(MECH) | 4849A10038A | |
| 352111 | TUBE ASSEMBLY,CONNECTOR | 5211A11040A | |
| 553000 | HEATER,SUMP | 5300A20008A | |
| 553000 | HEATER,SUMP | 5300A20008B | |
| w48602 | CLAMP,SPRING | 4H01930A | |
| 552203 | VALVE,SERVICE | 5220A90012A | |
| 552203 | VALVE,SERVICE | 5220A20042A | |
| 552203 | VALVE,SERVICE | 2A00499M | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11023A | |
| 552201 | VALVE,CHECK | 3A01020L | |
| 566000 | SWITCH,PRESSURE | 6600AG3057A | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11024A | |
| 552204 | VALVE,SOLENOID | 5220A90002A | |
| 552200 | VALVE,EXPANSION BODY | 5220A90001B | |
| 552204 | VALVE,SOLENOID | 5220A90008B | |
| 558511 | DRIER ASSEMBLY | 5851A20002A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004B | |
| 561411 | COIL ASSEMBLY,EXPANSION | 6141A20009J | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001G | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001H | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001J | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009B | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009C | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009D | |
| 546810 | MOTOR ASSEMBLY,OUTDOOR | 4681A10014H | |
| 559010 | FAN ASSEMBLY,PROPELLER | 5901A10029A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10154C | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A30037K | |
| 261704 | TRANSFORMER,POWER | 6170A20016D | |
| 566001 | SWITCH,MAGNET | 6600B000048 | |

LRUN(H) (16~40HP) Series (Multi V Plus)



LRUN1008TS0

| LOCATION NO. | DESCRIPTION | PART NO. | REMARK |
|--------------|---------------------------------|-------------|--------|
| | | LRUN1008TS0 | |
| 554160 | COMPRESSOR SET | 2520UNGV1AA | |
| 554160 | COMPRESSOR SET | 2520UNEY2AA | |
| 548490 | ACCUMULATOR ASSEMBLY(MECH) | 4849A10038A | |
| 352111 | TUBE ASSEMBLY,CONNECTOR | 5211A11040A | |
| 553000 | HEATER,SUMP | 5300A20008A | |
| 553000 | HEATER,SUMP | 5300A20008B | |
| w48602 | CLAMP,SPRING | 4H01930A | |
| 552203 | VALVE,SERVICE | 5220A90012A | |
| 552203 | VALVE,SERVICE | 5220A20042A | |
| 552203 | VALVE,SERVICE | 2A00499M | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11023A | |
| 552201 | VALVE,CHECK | 3A01020L | |
| 566000 | SWITCH,PRESSURE | 6600AG3057A | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11024A | |
| 552202 | VALVE,REVERSING | 5220A20039A | |
| 552204 | VALVE,SOLENOID | 5220A90008B | |
| 552204 | VALVE,SOLENOID | 5220A90002A | |
| 552200 | VALVE,EXPANSION BODY | 5220A90001B | |
| 159910 | VALVE ASSEMBLY | 5221A20004P | |
| 552201 | VALVE,CHECK | 3A01020D | |
| 558511 | DRIER ASSEMBLY | 5851A20002A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004B | |
| 561410 | COIL ASSEMBLY,REVERSING VALVE | 6141A20010F | |
| 561411 | COIL ASSEMBLY,EXPANSION | 6141A20009J | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001G | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001H | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001J | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009B | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009C | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009D | |
| 546810 | MOTOR ASSEMBLY,OUTDOOR | 4681A10029A | |
| 559010 | FAN ASSEMBLY,PROPELLER | 5901A10029A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10109C | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10076C | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10145A | |
| 668713 | PWB(PCB) ASSEMBLY,SUB | 6871A20133G | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10146A | |
| 346811 | MOTOR ASSEMBLY,SINGLE | 4681A21001A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10153A | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A30036E | |
| 261704 | TRANSFORMER,POWER | 6170A20016D | |
| 566001 | SWITCH,MAGNET | 6600B000048 | |
| W0FZZ | FUSE,DRAWING | 0FZZA90001F | |
| W6200 | FILTER(CIRC),EMC | 6200JB8009U | |

LRUN1208TS0

| LOCATION NO. | DESCRIPTION | PART NO. | REMARK |
|--------------|---------------------------------|-------------|--------|
| | | LRUN1208TS0 | |
| 554160 | COMPRESSOR SET | 2520UNGV1AA | |
| 554160 | COMPRESSOR SET | 2520UNEY2AA | |
| 548490 | ACCUMULATOR ASSEMBLY(MECH) | 4849A10038A | |
| 352111 | TUBE ASSEMBLY,CONNECTOR | 5211A11040A | |
| 553000 | HEATER,SUMP | 5300A20008A | |
| 553000 | HEATER,SUMP | 5300A20008B | |
| w48602 | CLAMP,SPRING | 4H01930A | |
| 552203 | VALVE,SERVICE | 5220A90012A | |
| 552203 | VALVE,SERVICE | 5220A20042A | |
| 552203 | VALVE,SERVICE | 2A00499M | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11023A | |
| 552201 | VALVE,CHECK | 3A01020L | |
| 566000 | SWITCH,PRESSURE | 6600AG3057A | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11024A | |
| 552202 | VALVE,REVERSING | 5220A20039A | |
| 552204 | VALVE,SOLENOID | 5220A90008B | |
| 552204 | VALVE,SOLENOID | 5220A90002A | |
| 552200 | VALVE,EXPANSION BODY | 5220A90001B | |
| 159910 | VALVE ASSEMBLY | 5221A20004P | |
| 552201 | VALVE,CHECK | 3A01020D | |
| 558511 | DRIER ASSEMBLY | 5851A20002A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004B | |
| 561410 | COIL ASSEMBLY,REVERSING VALVE | 6141A20010F | |
| 561411 | COIL ASSEMBLY,EXPANSION | 6141A20009J | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001G | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001H | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001J | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009B | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009C | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009D | |
| 546810 | MOTOR ASSEMBLY,OUTDOOR | 4681A10029A | |
| 559010 | FAN ASSEMBLY,PROPELLER | 5901A10029A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10109C | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A30076C | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10145A | |
| 668713 | PWB(PCB) ASSEMBLY,SUB | 6871A20133G | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10146A | |
| 346811 | MOTOR ASSEMBLY,SINGLE | 4681A21001A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10153B | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A30036H | |
| 261704 | TRANSFORMER,POWER | 6170A20016D | |
| 566001 | SWITCH,MAGNET | 6600B000048 | |
| W0FZZ | FUSE,DRAWING | 0FZZA90001F | |

LRUN1208TR0

| LOCATION NO. | DESCRIPTION | PART NO. | REMARK |
|--------------|---------------------------------|-------------|--------|
| | | LRUN1208TR0 | |
| 554160 | COMPRESSOR SET | 2520UNGV1AA | |
| 554160 | COMPRESSOR SET | 2520UNEY2AA | |
| 548490 | ACCUMULATOR ASSEMBLY(MECH) | 4849A10038A | |
| 352111 | TUBE ASSEMBLY,CONNECTOR | 5211A11040A | |
| 553000 | HEATER,SUMP | 5300A20008A | |
| 553000 | HEATER,SUMP | 5300A20008B | |
| w48602 | CLAMP,SPRING | 4H01930A | |
| 552203 | VALVE,SERVICE | 5220A90012A | |
| 552203 | VALVE,SERVICE | 5220A20042A | |
| 552203 | VALVE,SERVICE | 2A00499M | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11023A | |
| 552201 | VALVE,CHECK | 3A01020L | |
| 566000 | SWITCH,PRESSURE | 6600AG3057A | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11024A | |
| 552202 | VALVE,REVERSING | 5220A20039A | |
| 552204 | VALVE,SOLENOID | 5220A90008B | |
| 552204 | VALVE,SOLENOID | 5220A90002A | |
| 552200 | VALVE,EXPANSION BODY | 5220A90001B | |
| 159910 | VALVE ASSEMBLY | 5221A20004P | |
| 552201 | VALVE,CHECK | 3A01020D | |
| 558511 | DRIER ASSEMBLY | 5851A20002A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004B | |
| 561410 | COIL ASSEMBLY,REVERSING VALVE | 6141A20010F | |
| 561411 | COIL ASSEMBLY,EXPANSION | 6141A20009J | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001G | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001H | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001J | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009B | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009C | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009D | |
| 546810 | MOTOR ASSEMBLY,OUTDOOR | 4681A10029A | |
| 559010 | FAN ASSEMBLY,PROPELLER | 5901A10029A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10109C | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10076C | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10145A | |
| 668713 | PWB(PCB) ASSEMBLY,SUB | 6871A20133G | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10146A | |
| 346811 | MOTOR ASSEMBLY,SINGLE | 4681A21001A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10153C | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A30053R | |
| 261704 | TRANSFORMER,POWER | 6170A20016D | |
| 566001 | SWITCH,MAGNET | 6600B000048 | |
| W0FZZ | FUSE,DRAWING | 0FZZA90001F | |
| W6200 | FILTER(CIRC),EMC | 6200JB8009U | |

LRUN1408TR0

| LOCATION NO. | DESCRIPTION | PART NO. | REMARK |
|--------------|---------------------------------|-------------|--------|
| | | LRUN1408TR0 | |
| 554160 | COMPRESSOR SET | 2520UNGV1AA | |
| 554160 | COMPRESSOR SET | 2520UNEY2AA | |
| 548490 | ACCUMULATOR ASSEMBLY(MECH) | 4849A10038A | |
| 352111 | TUBE ASSEMBLY,CONNECTOR | 5211A11040A | |
| 553000 | HEATER,SUMP | 5300A20008A | |
| 553000 | HEATER,SUMP | 5300A20008B | |
| w48602 | CLAMP,SPRING | 4H01930A | |
| 552203 | VALVE,SERVICE | 5220A90012A | |
| 552203 | VALVE,SERVICE | 5220A20042A | |
| 552203 | VALVE,SERVICE | 2A00499M | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11023A | |
| 552201 | VALVE,CHECK | 3A01020L | |
| 566000 | SWITCH,PRESSURE | 6600AG3057A | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11024A | |
| 552202 | VALVE,REVERSING | 5220A20039A | |
| 552204 | VALVE,SOLENOID | 5220A90008B | |
| 552204 | VALVE,SOLENOID | 5220A90002A | |
| 552200 | VALVE,EXPANSION BODY | 5220A90001B | |
| 159910 | VALVE ASSEMBLY | 5221A20004P | |
| 552201 | VALVE,CHECK | 3A01020D | |
| 558511 | DRIER ASSEMBLY | 5851A20002A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004B | |
| 561410 | COIL ASSEMBLY,REVERSING VALVE | 6141A20010F | |
| 561411 | COIL ASSEMBLY,EXPANSION | 6141A20009J | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001G | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001H | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001J | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009B | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009C | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009D | |
| 546810 | MOTOR ASSEMBLY,OUTDOOR | 4681A10029A | |
| 559010 | FAN ASSEMBLY,PROPELLER | 5901A10029A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10109C | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10076C | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10145A | |
| 668713 | PWB(PCB) ASSEMBLY,SUB | 6871A20133G | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A10146A | |
| 346811 | MOTOR ASSEMBLY,SINGLE | 4681A21001A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10153D | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A30053R | |
| 261704 | TRANSFORMER,POWER | 6170A20016D | |
| 566001 | SWITCH,MAGNET | 6600B000048 | |
| W0FZZ | FUSE,DRAWING | 0FZZA90001F | |
| W6200 | FILTER(CIRC),EMC | 6200JB8009U | |

LRUH1008TS0

| LOCATION NO. | DESCRIPTION | PART NO. | REMARK |
|--------------|---------------------------------|-------------|--------|
| | | LRUH1008TS0 | |
| 554160 | COMPRESSOR SET | 2520UNEY2AA | |
| 548490 | ACCUMULATOR ASSEMBLY(MECH) | 4849A10038A | |
| 352111 | TUBE ASSEMBLY,CONNECTOR | 5211A11040A | |
| 553000 | HEATER,SUMP | 5300A20008A | |
| 553000 | HEATER,SUMP | 5300A20008B | |
| w48602 | CLAMP,SPRING | 4H01930A | |
| 552203 | VALVE,SERVICE | 5220A90012A | |
| 552203 | VALVE,SERVICE | 5220A20042A | |
| 552203 | VALVE,SERVICE | 2A00499M | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11023A | |
| 552201 | VALVE,CHECK | 3A01020L | |
| 566000 | SWITCH,PRESSURE | 6600AG3057A | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11024A | |
| 552202 | VALVE,REVERSING | 5220A20039A | |
| 552204 | VALVE,SOLENOID | 5220A90008B | |
| 552204 | VALVE,SOLENOID | 5220A90002A | |
| 552200 | VALVE,EXPANSION BODY | 5220A90001B | |
| 159910 | VALVE ASSEMBLY | 5221A20004P | |
| 552201 | VALVE,CHECK | 3A01020D | |
| 558511 | DRIER ASSEMBLY | 5851A20002A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004B | |
| 561410 | COIL ASSEMBLY,REVERSING VALVE | 6141A20010F | |
| 561411 | COIL ASSEMBLY,EXPANSION | 6141A20009J | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001G | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001H | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001J | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009B | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009C | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009D | |
| 546810 | MOTOR ASSEMBLY,OUTDOOR | 4681A10014H | |
| 559010 | FAN ASSEMBLY,PROPELLER | 5901A10029A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10154A | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A30037E | |
| 261704 | TRANSFORMER,POWER | 6170A20016D | |
| 566001 | SWITCH,MAGNET | 6600B000048 | |

LRUH1008TR0

| LOCATION NO. | DESCRIPTION | PART NO. | REMARK |
|--------------|---------------------------------|-------------|--------|
| | | LRUH1008TR0 | |
| 554160 | COMPRESSOR SET | 2520UNEY2AA | |
| 548490 | ACCUMULATOR ASSEMBLY(MECH) | 4849A10038A | |
| 352111 | TUBE ASSEMBLY,CONNECTOR | 5211A11040A | |
| 553000 | HEATER,SUMP | 5300A20008A | |
| 553000 | HEATER,SUMP | 5300A20008B | |
| w48602 | CLAMP,SPRING | 4H01930A | |
| 552203 | VALVE,SERVICE | 5220A90012A | |
| 552203 | VALVE,SERVICE | 5220A20042A | |
| 552203 | VALVE,SERVICE | 2A00499M | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11023A | |
| 552201 | VALVE,CHECK | 3A01020L | |
| 566000 | SWITCH,PRESSURE | 6600AG3057A | |
| 55211F | TUBE ASSEMBLY,SOLENOIDE | 5211A11024A | |
| 552202 | VALVE,REVERSING | 5220A20039A | |
| 552204 | VALVE,SOLENOID | 5220A90008B | |
| 552204 | VALVE,SOLENOID | 5220A90002A | |
| 552200 | VALVE,EXPANSION BODY | 5220A90001B | |
| 159910 | VALVE ASSEMBLY | 5221A20004P | |
| 552201 | VALVE,CHECK | 3A01020D | |
| 558511 | DRIER ASSEMBLY | 5851A20002A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004A | |
| 565010 | SENSOR ASSEMBLY | 6501A20004B | |
| 561410 | COIL ASSEMBLY,REVERSING VALVE | 6141A20010F | |
| 561411 | COIL ASSEMBLY,EXPANSION | 6141A20009J | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001G | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001H | |
| 561410 | COIL ASSEMBLY,SOLENOID | 6141A10001J | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009B | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009C | |
| 263230 | THERMISTOR ASSEMBLY | 6323A20009D | |
| 546810 | MOTOR ASSEMBLY,OUTDOOR | 4681A10014H | |
| 559010 | FAN ASSEMBLY,PROPELLER | 5901A10029A | |
| 649950 | CONTROL BOX ASSEMBLY,OUTDOOR | 4995A10154B | |
| 668711 | PWB(PCB) ASSEMBLY,MAIN(OUTDOOR) | 6871A30037K | |
| 261704 | TRANSFORMER,POWER | 6170A20016D | |
| 566001 | SWITCH,MAGNET | 6600B000048 | |

